2008–2009 Academic Calendar

Fall Quarter 2008
June 20    Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
Sept. 22   Instruction Begins
Nov. 11    Veterans Day; Campus Closed
Nov. 27–28 Thanksgiving Recess; Campus Closed
Dec. 9–12  Final Examinations
Dec. 15-Jan. 2 Winter Recess

Winter Quarter 2009
Oct. 20    Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
Jan. 5     Instruction Begins
Jan. 19    Martin Luther King Jr.’s Birthday; Campus Closed
Feb. 13    Lincoln’s Birthday; Campus Closed
Feb. 16    Washington’s Birthday; Campus Closed
March 24–27 Final Examinations
March 30–April 3 Spring Recess

Spring Quarter 2009
Jan. 20    Admission Deadline for International Students on F-1 Visas (Separate Application Required)†
April 6    Instruction Begins
May 25     Memorial Day; Campus Closed
June 24–26 Final Examinations
June 26    Commencement Ceremony; 6 p.m.; Library Quad

Summer Session 2009
June 29–Aug. 8 Six-Week Session
June 29–Aug. 22 Eight-Week Session

†Orientation for international students on F-1 visas is held four to five weeks prior to start of class. See page 18–19.

The Summer Session 2009 calendar is tentative and subject to a final collective bargaining agreement.

For additional important deadlines and dates, review the college calendar at www.foothill.edu.
On the Cover
Now at the end of a multi-year construction project, Foothill College proudly presents its new and thoroughly modern campus center, student services and life science buildings as well as the new state-of-the-art Lohman Theatre. The Campus Center (pictured above) serves as the lively location for student activities throughout the year. The facility also conveniently houses the bookstore, health and police services, student affairs and student government, food services, lounge, dining room and conference rooms. The student services building (pictured below)—is designed to give you quick, one-stop access to an assortment of important support services, including registration, counseling, financial aid and many others.

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

Rules & Policies May Change
The Foothill-De Anza Community College District and Foothill College have made every reasonable effort to determine that information in this catalog is accurate. Changes may result from California legislature statutes or rules and policies adopted by the Foothill-De Anza Community College District Board of Trustees, chancellor or institutional designee. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of the Foothill-De Anza Community College District or Foothill College for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the district and college. The district and college further reserve the right to add, amend or repeal any of its rules, regulations, policies and procedures.
Welcome to the 2008–2009 academic year at Foothill College! As we go to press for this catalog, funding for community colleges in the state budget remains uncertain for the upcoming year. What is certain, however, is the Foothill College commitment to excellence through inclusion, and ensuring that our students receive outstanding service and access to educational opportunities. Foothill will navigate the current fiscal challenges under the strong leadership of its faculty, classified staff, administration, board of trustees and chancellor. These steps include, but are not limited to: Strategic use of limited resources; addition and expansion of external partnerships; and cultivation of a campus climate that engenders innovation and creativity.

In the coming year, Foothill will continue to focus on improving customer service through a project that began last year. We conducted a series of student surveys at that time and have gathered a wealth of information regarding student satisfaction to use for analysis in guiding program improvements. In a separate initiative, our program review processes have been revitalized to forge a clearer connection between planning and evaluation efforts and resource allocation. In the coming year, Foothill College is serving in a leadership role for the statewide implementation of the Basic Skills Initiative and has engaged in meaningful self-assessment to better support student success. This is the third year Foothill has provided leadership in improving Basic Skills programs statewide.

To extend our capacity of meeting the needs of our highly diverse students, Foothill collaborates with a broad range of educational institutions, community organizations, businesses, industries, foundations and public agencies. Collaboration has given us the inspiration to develop noncredit programs that complement existing offerings in the community, as well as the credit programs available at Foothill College. Articulation and university-transfer agreements pave the way for admission and success at highly competitive institutions. Advisory councils for career programs ensure currency of curriculum and pathways to employment. Foundation assistance, grant opportunities and individual donor support provide resources that are essential to the educational excellence for which Foothill College is noted.

We are deeply grateful to our community for passing Measure C in 2006, which allows us to complete maintenance, renovation and construction projects that could not be funded by Measure E in 1999. Classrooms are being renovated, educational technology updated and dilapidated furnishings replaced. Measure C also designates funding for the acquisition of a permanent site for the Foothill College Middlefield Campus.

In saving the best for last, let me reveal that the secret of our creativity and innovation at Foothill College is our people! Community supporters, employees and students come together to create a vibrant, welcoming place of learning. Our community supporters contribute their time, money and good will, and they are an integral part of Foothill College’s achievements. Our beautiful facilities and grounds are cared for by colleagues who take great pride in a job well done. Our programs and services are delivered by dedicated individuals who are often local heroes and heroines, or state and national leaders in their fields, or winners of prestigious awards. Our students excel in academics, creative and performing arts, athletics, student government and community service. They are our raison d’être and they are our reason for joy!

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

Emergency 911
Adaptive Learning 949-7332
Admissions & Records 949-7325
Bookstore 949-7305
Career Center 949-7229
Counseling Appointments 949-7423
CTIS Computer Lab 949-7303
Disability Resource Center 949-7017
District Police (Non-emergency) 949-7313
English Writing Center 949-7290
ESL Writing Center 949-7923
Evening/Weekend Programs 949-7711
Extended Opportunity Program & Services (EOPS) 949-7207
Financial Aid 949-7245
Grades by Phone 917-0509 or (408) 777-9394
Health Services 949-7243
Honors Institute 949-7638
IDEA Lab 949-7137
Internship Program Office 604-5560
Language Arts Lab 949-7452
Library 949-7392
Lost & Found 949-7313
Marketing & Communications 949-7362
Placement Testing 949-7650
Prerequisites/Matriculation Office 949-7512
Psychological Services 949-7910
Register by Phone 917-0509 or (408) 777-9394
Student Activities 949-7282
Theatre Box Office 949-7360
Transcript Information 949-7002
Transfer Center 949-7235
TDD for Hearing Impaired 948-6025
Tutorial Center 949-7447
Veterans Office 949-7001
Volunteer Center 949-7634

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

Contents

2008–2009 Academic Calendar . . . . . Inside Front Cover

College Profile ............................................. 5
Foothill-De Anza Community College District Mission, 6
Foothill College Vision, Values, Purpose & Mission, 6
Our History, 7
Committed to Our Community, 7
We Celebrate Diversity, 7
Accreditation, 8
“The Most Beautiful Community College”, 8
Measures C & E Campus Improvements, 8
Campus Highlights, 8
Public Events & Services, 8

Student Life ............................................. 9
Athletics, 10
New Campus Center Opens, 10
Campus Clubs, 11
Campus Radio, 11
Cheerleading & Dance Squad, 11
College Hour, 11
Community Service, 11
Cultural Enrichment, 11
Intramural Sports & Recreation Programs, 11
Leadership, 12
Student Activities Program, 12

Student Services & Programs ....................... 13
Student Development Services, 14
Admission & Placement Testing Services, 15
Campus Support Centers, 15
Personal Support Services, 16
Special Assistance Services, 16
Special Studies & Programs, 17

Financial Planning & College Costs ............. 21
Student Fees, 22
Instructional Materials Fees, 22
Textbooks & Supplies, 22
Estimated Annual Cost of Attending Foothill College, 23
2008–2009 Cost of Attendance, 23
Examples of Additional Costs, 23
Refunds & Repayments, 23
Financial Aid, 23
Federal Aid, 24
State Aid, 24
Other Aid, 26

Programs of Study .................................... 27
Academic Divisions, 27
Build Your Foundation: General Education Coursework, 28
Select a Major, 28
Certificate Programs, 28
Two-Year Career Programs, 29
Curriculum Advisory Committees, 29
Grade Requirements for Specified Career Program Courses, 29

Continued on page 4
“My experience at Foothill College remains one of the brightest, most exciting and productive periods of my life. Foothill gave me my first real taste of what life offered, what my true potential entailed and where my dreams could take me if I dared to follow them. I still think of Foothill College as my intellectual home. It’s the place where I was given the opportunity to explore my heart, expand my mind, and be free to grow, learn, fail and, ultimately, triumph. On every trip I take to the Bay Area, I make time to visit Foothill to walk its quiet paths, enjoy its lush landscape, or stand on the stage of the Smithwick Theatre and reflect on the wealth of knowledge and experience I was generously afforded while at Foothill.”

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

College Profile

Foothill-De Anza Community College District Mission

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”

Measures C & 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, American Medical Association, Federal Aviation Administration, American Veterinary Medical Association, Council of Medical Education and Commission on the Accreditation of Respiratory Care.

“The Most Beautiful Community College”
The Foothill College campus is located on 122 acres in the rolling foothills of Los Altos Hills. The campus adjoins El Monte Road and Interstate 280, the scenic Junipero Serra Freeway.
The American Institute of Architects has honored Foothill for its outstanding design, and a San Francisco Chronicle architecture critic called our campus “the most beautiful community college ever built.” The distinctive Pacific-style architecture harmonizes with the surrounding hillside community, creating an elegant but informal atmosphere conducive to college study.

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

Campus Highlights
- All-Weather Track
- Bamboo Garden & Azumaya Meditation Pavilion
- Campus Center
- Chinese Heritage Room
- Choral Building & Appreciation Hall
- Computer Centers
- Dental Health Clinic
- Football Stadium
- Full-Service Web Site at www.foothill.edu
- Golf Instruction Complex
- Hubert H. Semans Library & Instructional Support Center
- Interdisciplinary Electronic Arts (IDEA) Center
- Japanese Cultural Center
- Krause Center for Innovation
- Language Arts Lab
- Lohman Theatre
- Lower Campus Complex
- Math, Physics & Chemistry Center
- Middlefield Campus in Palo Alto
- Multimedia Arts IDEA Computer Lab
- Observatory
- Olympic-Size Swimming Pool
- Robert C. Smithwick Theatre
- Softball/Soccer Field
- Student-Operated KFJC-FM Radio Station
- Tutorial Center
- Veterinary Technology & Horticulture Complexes
- Wellness Center

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

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

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

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

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

Student Life

Athletics

New Campus Center Open

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 & Athletics Division at (650) 949-7222.

New Campus Center Opens

To enhance your college experience, Foothill has developed, designed and opened a multi-million-dollar, state-of-the-art Campus Center. We invite you to use the new center for a meal or quick snack, take a break in the fireside lounge, play an arcade game and enjoy the breathtaking vistas you’ll see from the center’s outdoor plaza. You’ll also find the following services and programs in the Campus Center:

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

Campus clubs and organizations cater to a variety of student interests, including academic, athletic, cultural, social, political, religious, special interest and service groups. We encourage student participation in extracurricular organizations and authorize clubs to develop from sufficient student interest. Each club must have a faculty or staff advisor. For more information, call the Student Activities Office at (650) 949-7282.

**Campus Radio**

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

**Cheerleading & Dance Squad**

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

**College Hour**

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

**Community Service**

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

**Cultural Enrichment**

The Student Activities Office works with the Associated Students of Foothill College (ASFC), faculty, staff, academic divisions and community organizations to present lectures, seminars and forums highlighting art, music, drama, politics, athletics, journalism and current issues. The staff also helps students, campus clubs and other organizations plan and coordinate events. Black History Month, Women’s History Month, Asian Pacific Islander Month, Jewish Heritage Month, Latino Heritage Month and Gay & Lesbian Heritage Month are just a few of the popular events that have earned campus and community recognition. For more information, call the Student Activities Office at (650) 949-7282.

**Intramural Sports & Recreation Programs**

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

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

- Administration
- Advocacy
- Broadcast communication
- Budget development
- Decision making
- Event coordination
- Goals and objectives
- Governance
- Group dynamics
- Leadership theory and styles
- Marketing
- Organizational development
- Parliamentary procedure
- Planning
- Policy development and implementation
- Problem solving and conflict resolution
- Speech communication
- Student rights and responsibilities
- Team building
- Time management

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

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

Student Activities Program

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


Student Services & Programs

Student Development Services
Admission & Placement Testing Services
Campus Support Centers
Personal Support Services
Special Assistance Services
Special Studies & Programs
Student Services & Programs

Student Development Services

Matriculation

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

Our responsibility is to provide:

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

Your responsibility is to:

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

Orientation

The CNSL 50: Introduction to College Course

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

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

Counseling

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

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

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

Career/Transfer Center

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

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

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

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

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

**Admission & Placement Testing Services**

**Student Classifications**

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

- **Continuing Student**: You were enrolled at Foothill last quarter.
- **Former Student**: You've attended Foothill, but were not enrolled during the previous quarter (Summer Session does not apply).
- **Freshman**: You've completed fewer than 45 units of college credit.
- **Full-Time Student**: You're enrolled in 12 or more units this quarter. Or you're enrolled in 6 units during Summer Session.
- **International Student**: You have applied and been accepted to the Foothill College International Students Program.
- **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; all ESL (except 134, 136, 137); and all mathematics courses except MATH 230, 231 or 250. Placement testing is offered on a computer. Testing is conducted by appointment. To schedule an appointment at the Main Campus, access www.foothill.edu/placement and follow the instructions or call (650) 949-7230. To schedule an appointment at the Middlefield Campus, call (650) 949-6958.

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) 949-7024. You may enroll in the following courses without placement testing: ENGL 100, ESL 134, 136, 137 and MATH 230 and 231.

If you have successfully completed an ESL course at another California community college, you can request that your transcript be evaluated by calling (650) 949-7250.

We also offer ability-to-benefit placement testing for students lacking a high school diploma and requesting federal financial aid. For details, access www.foothill.edu/reg/placement or 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/placement.

**Campus Support Centers**

**CTIS Computer Centers**

CTIS computer labs are open for all students. If you are enrolled in CTIS courses, you receive priority and printing capabilities. For more information, call (650) 949-7303, Main Campus; or (650) 949-6957, Middlefield Campus.

**Language Arts Laboratory**

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

**Library Services**

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

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

Media Center

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

Foothill Observatory

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

Tutorial Center

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

Writing Centers

English

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

English as a Second Language

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

Personal Support Services

Health Services

The Health Services Office provides confidential health care services to students. Direct services include vaccinations, blood-pressure checks, emergency first aid, basic primary care appointments, smoking cessation counseling and acupressure massage. The office also sponsors speakers, presentations and conferences on health topics throughout the year as well as services of a nutritionist and consults with a register dietician. Services are available by appointment only.

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

Psychological Services

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

Housing

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

Special Assistance Services

Disabled Student Programs & Services

Adaptive Learning Division

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

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

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

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

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

**EOPS/CARE for Disadvantaged Students**

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

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

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

**Veterans Assistance & Services**

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

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

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

**Refunds & Grading Options for Students Called to Active Military Service**

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

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

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

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

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

**Special Studies & Programs**

**Professional & Work Force Development**

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

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

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

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

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

Campus Abroad Program

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

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

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

Cooperative Work Experience Program

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

Evening College

If you work during the day or would prefer to take classes in the late afternoon, evening or weekend, Foothill’s Evening College offers hundreds of classes each quarter. The Evening College Office, located in 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. Foothill College has a long history of educating international students since its opening in 1957, and its graduates hail from many diverse corners of the world, from Tonga and Ivory Coast to Kyrgyzstan, Nepal and Latvia.

The International Programs Office caters specifically to international students on F-1 visas. We provide counseling and assistance to more than 750 F-1 students from more than 70 different countries. F-1 status is available to foreign citizens who commit to study full time in the United States in programs leading to an associate degree or bachelor’s degree at a four-year university through Foothill’s transfer pathways. Admission to Foothill is flexible, convenient and personalized: Applications are accepted three times a year for Fall, Winter and Spring quarters. For admissions requirements and application procedure, access the admissions section at www.foothill.edu/international.

Foothill also hosts international students on other visa types, such as J-1, H-1B, H-4, L-2 or F-2. The college has approximately 1,200 international students on all visa types, earning Foothill a #11 spot in the U.S. on the Institute of International Education’s Open Doors Report ranking associate institutions with the largest and most diverse international student populations. Applicants who do not hold or intend to apply for an F-1 status are considered domestic students for application purposes and should apply as non-residents by completing the Domestic Student Application Form at www.foothill.edu.

Foothill’s International Programs Office provides some informational support to overseas applicants who are permanent residents, dual citizens or hold a U.S. visa other than F-1.

The International Programs Office features a team of caring multilingual professionals who ensure that students have an outstanding educational experience at Foothill and in the United States. Our services include a new student orientation program with comprehensive academic, immigration and cultural counseling; regular immigration advising and seminars by a dedicated advisor regarding
regulations that affect F-1 student status from passports, visas, employment, travel and academic issues; CINTAX tax-filing assistance program; medical insurance program; and publication of the I-NEWS monthly newsletter.

Additionally, the office creates programs and initiatives that support international students as they adjust to the campus and community, expand their horizons and share their unique heritage and cultural backgrounds. Special activities include monthly coffee hours, free tickets to Celebrity Forum, field trips to Bay Area attractions, Thanksgiving dinner, ice-skating trip and International Student Connection Club. The office also coordinates large-scale programming initiatives aimed at internationalizing the Foothill campus, such as the annual International Film Festival, International Night and Lunar New Year celebrations.

For information about admissions, call (650) 949-7293 or e-mail fhinternational@fhda.edu. For information about marketing and activities, call (650) 949-7159 or e-mail KolesnikovaViktoria@fhda.edu.

Internship Program

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

Foothill College offers one-year paid internships for students in most majors such as psychology, business, engineering, computer science, graphic arts, physical and biological sciences, office administration, multimedia and many other majors. Internships are sponsored by job sites such as NASA-Ames Research Center, Apple Computer, LSI Logic, SETI, Computer History Museum, 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 Child Development, REACH Post-Stroke, Paramedic, EMT, Pharmacy Technician and Travel Careers programs. A variety of support services are available at the Middlefield Campus, including counseling, tutoring, financial-aid assistance, open PC and Mac computer labs, OwlCard distribution and photo station, and placement testing services. We can process all admissions and registration transactions at either the Middlefield Campus or Main Campus.

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

Occupational Training Institute

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

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

Project Veterans Program

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

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

Short Courses

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

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

—Ivonne Sorto, Student, Foothill College

Financial Planning & College Costs

Student Fees

Instructional Materials Fees

Textbooks & Supplies

Estimated Annual Cost of Attending Foothill College

2008–2009 Cost of Attendance

Examples of Additional Costs

Refunds & Repayments

Financial Aid

Federal Aid

State Aid

Other Aid
Financial Planning & College Costs

Student Fees

If you’re a California resident, you’ll pay $13 per unit*. The non-resident tuition fee is $115 per unit, and the foreign student tuition fee is $123 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 $390 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.

2008–2009 Cost of Attendance

<table>
<thead>
<tr>
<th>California Resident (9 months)</th>
<th>Reside At Home No Dependents</th>
<th>All Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fees</td>
<td>$672§</td>
<td>$672</td>
</tr>
<tr>
<td>Books / Supplies</td>
<td>$1,656</td>
<td>$1,656</td>
</tr>
<tr>
<td>Room / Board</td>
<td>$4,137</td>
<td>$10,002</td>
</tr>
<tr>
<td>Transportation</td>
<td>$1,116</td>
<td>$1,116</td>
</tr>
<tr>
<td>Misc. / Personal</td>
<td>$2,754</td>
<td>$2,754</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$10,335</strong></td>
<td><strong>$16,200</strong></td>
</tr>
</tbody>
</table>

§Based on institutional average 15 units x $13 per unit = $195 + $14 Health Fee + $16 Campus Center Use Fee* x 3 Quarters = $675.

*Fees are subject to change; excludes cost of textbooks.

Additional Fees

- Materials Fee: amount varies.
- Non-Resident Tuition Fee: $115 per unit per quarter.

Examples of Additional Costs

For students enrolled in allied health programs (primary care associate, dental hygiene, etc.), special fees, lab fees, tooling, and other related costs may be 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 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 any Foothill College additional paperwork. 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 cost of attendance at Foothill (refer to chart at left). 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 that requires two or more quarters to complete.
- Are a U.S. citizen or eligible non-citizen.
- Maintain satisfactory academic 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 satisfactorily resolved.
Federal Aid

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

Academic Competitiveness Grant (ACG)

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

Federal Pell Grant

Federal Pell Grants are awarded to undergraduates based on financial need. They range from $523 to $4,731.

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 (BLA)

BLA 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 BLA 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, however you must be enrolled in a minimum of six units to be eligible for FWS. If you receive an FWS award, it is your responsibility to schedule an interview with the Financial Aid Office for work study placement assistance.

Federal Perkins Loan

Borrow up to $2,400 a year at a lower-division undergraduate level from this campus-based program with limited funding. You will begin repaying the loan nine months after you graduate or drop below half-time enrollment. During the repayment period (up to 10 years), you’ll be charged 5 percent interest on the unpaid balance.

Federal Subsidized & Unsubsidized Stafford Student Loan

Federal Stafford Loans are made by banks, credit unions, and savings and loan associations. As a first-year undergraduate, you can borrow up to $3,500 per year. As a second-year undergraduate, you can borrow up to $4,500 per year. Additional Unsubsidized Stafford may also be available annually for independent students.

Federal Stafford Loan totals may not exceed $31,000 for dependent undergraduates and $57,500 for independent undergraduates (no more than $23,000 can be subsidized). 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 8.5 percent on the unpaid balance.

Federal PLUS Loan for Parents

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

State Aid

Extended Opportunity Program & Services (EOPS)

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

To be eligible, in addition to federal aid requirements, a student must:
- be a U.S. resident or eligible non-citizen, and
- be a California resident, and
- not have a bachelor's or professional degree (except extended Cal Grant A or B awards for a teaching program or other five-year program), and
- file a completed FAFSA and Cal Grant GPA Verification Form by the March 2, 2008 deadline.

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

Cal Grant B: Is for high-potential students from disadvantaged or low-income families who otherwise would not be able to pursue a higher education. California community college awards are up to $1,551 per year.

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: The student who will enroll at a California community college in 2008, although strongly encouraged to apply by March 2, has a second deadline of September 2, 2008. 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.

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

California Chafee Grant

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

Board of Governors 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 income standards; year specific
- You have documentation that you are a recipient or the child of a recipient of the Congressional Medal of Honor.
- You have documentation that you are a surviving dependent of any individual killed in the Sept. 11, 2001 terrorist attack.
- You have documentation that you are a dependent of a deceased law enforcement/fire suppression personnel killed in the line of duty.

Applying for BOGW

- You are required to submit a completed 2008-2009 BOGW Application Form. Complete the form online at www.foothill.edu/aid or pick up the form in the Financial Aid Office.
- Only one application is required per year (July 1–June 30).
- 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, the BOGW form 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), purchase a Foothill College OwlCard and meet satisfactory academic progress requirements. These 30-day loans are interest-free. A late fee will be charged and registration holds will be placed for overdue loans. Emergency loans 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 $14/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

Tens of 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 financial aid options, please contact:

Financial Aid Office (in Room 8202 of Building 8200)
Foothill College
12345 El Monte Road
Los Altos Hills, CA 94022-4599
(650) 949-7245
fhfinancialaidoffice@foothill.edu
Academic Divisions

Adaptive Learning & Disability Services
(650) 949-7332

Biological & Health Sciences
(650) 949-7249

Business & Social Sciences
(650) 949-7322

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

Counseling & Student Services
(650) 949-7296

Fine Arts & Communication
(650) 949-7262

Instructional Services & Libraries
(650) 949-7390

Language Arts
(650) 949-7250

Physical Education/Human Performance
(650) 949-7742

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

Programs of Study

Academic Divisions

Build Your Foundation:
General Education Coursework

Select a Major

Certificate Programs

Two-Year Career Programs

Curriculum Advisory Committees

Grade Requirements for Specified Career Program Courses

Professional/Technical Programs Leading to a Career Upon Completion

Apprenticeship Programs

Degrees & Certificates Offered at Foothill College
Programs of Study

Build Your Foundation: General Education Coursework

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

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

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

Select a Major

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

Majors within career and transfer programs are described within the following pages. The chart on pages 30–34 summarizes degrees and certificates available as of Fall Quarter 2008. Consult curriculum sheets located on the Web site and available in the Counseling Center, Room 8301, for the most current degree and certificate information. You can also consult with a Foothill counselor to develop a strategy for selecting your college major. To schedule a consultation, call (650) 949-7423.

Certificate Programs

Foothill offers the following types of certificate programs:

- Career Certificate
- Certificate of Achievement
- Certificate of Completion
- Certificate of Proficiency
- Certificate of Specialization
- 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
- Paramedic
- Pharmacy Technician
- Primary Care Associate
- Radiation Therapy
- Radiologic Technology
- Respiratory Therapy
- Veterinary Technology

For information on specific courses, consult your counselor or review the program’s curriculum sheet online at www.foothill.edu.

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
- Enterprise Networking
- Environmental Horticulture & Design
- Geographic Information Systems
- Graphics & Interactive Design
- Help Desk/Tech Support
- Informatics
- Interactive & Multimedia Technologies
- Internet Technology
- Music Technology
- Office Administration
- Paramedic
- Pharmacy Technician
- Photography & Digital Imaging
- Primary Care Associate
- Radiation Therapy
- Radio Broadcasting
- Radiologic Technology
- Real Estate
- Respiratory Therapy
- Small Business Administration
- Special Education
- Theatre Technology
- Veterinary Technology
- Video Arts
Apprenticeship Programs
- **Electrician/Residential Electrician:**
  San Jose, (408) 453-1022; San Francisco, (415) 587-2500
- **Elevator Construction:** San Francisco, (415) 285-2900
- **Ironworking:** Fresno, (559) 497-1295
- **Plumbing/Pipefitting:** Monterey, (831) 633-6312; Sacramento, (916) 383-1102; San Jose, (408) 453-6330
- **Refrigeration/Heating & Air Conditioning:**
  San Jose, (408) 453-6330; Sacramento, (916) 383-1102
- **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 Counseling Center in Room 8301. Curriculum sheets are also available online at [www.foothill.edu](http://www.foothill.edu). The quarterly *Schedule of Classes* lists each program alphabetically, the courses offered each quarter and the current contact phone number.

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

### Legend

- **AA** Complete this program in approximately two years and earn the Associate in Arts Degree. See a counselor and refer to page 59 for requirements.
- **AS** Complete this program in approximately two years and earn the Associate in Science Degree. See a counselor and refer to page 59 for requirements.
- **CA** Complete this program and earn the Certificate of Achievement. See division office for requirements.
- **CC** Complete this program and earn the Certificate of Completion. See division office for requirements.
- **CCC** Complete this program and earn the Career Certificate. See division office for requirements.
- **CP** Complete this program and earn the Certificate of Proficiency. See division office for requirements.
- **CS** Complete this program and earn the Certificate of Specialization. See division office for requirements.
- **SC** Complete this program and earn the Skill Certificate. See division office for requirements.

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

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

### Legend

- **AA**: Complete this program in approximately two years and earn the Associate in Arts Degree. See a counselor and refer to page 59 for requirements.
- **AS**: Complete this program in approximately two years and earn the Associate in Science Degree. See a counselor and refer to page 59 for requirements.
- **CA**: Complete this program and earn the Certificate of Achievement. See division office for requirements.
- **CC**: Complete this program and earn the Certificate of Completion. See division office for requirements.
- **CCC**: Complete this program and earn the Career Certificate. See division office for requirements.
- **CP**: Complete this program and earn the Certificate of Proficiency. See division office for requirements.
- **CS**: Complete this program and earn the Certificate of Specialization. See division office for requirements.
- **SC**: Complete this program and earn the Skill Certificate. See division office for requirements.

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

<table>
<thead>
<tr>
<th>Program</th>
<th>Completion Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Database Developer</td>
<td>SC</td>
</tr>
<tr>
<td>Dental Assisting</td>
<td>AS, CA</td>
</tr>
<tr>
<td>Dental Hygiene</td>
<td>AS</td>
</tr>
<tr>
<td>Diagnostic Medical Sonography</td>
<td>AS, CA</td>
</tr>
<tr>
<td>Economics</td>
<td>AA</td>
</tr>
<tr>
<td>Engineering</td>
<td>AS</td>
</tr>
<tr>
<td>English</td>
<td>AA, CS</td>
</tr>
<tr>
<td>Enterprise Networking</td>
<td>AS, CA, CP</td>
</tr>
<tr>
<td>MCDST Preparation</td>
<td>CP</td>
</tr>
<tr>
<td>Cisco CCNA Academy Certificate</td>
<td>CP</td>
</tr>
<tr>
<td>Cisco CCNP Academy Certificate</td>
<td>CP</td>
</tr>
<tr>
<td>MCSE Preparation Certificate</td>
<td>CA</td>
</tr>
<tr>
<td>MCSE Preparation Certificate</td>
<td>CA</td>
</tr>
<tr>
<td>Network Security</td>
<td>CP</td>
</tr>
<tr>
<td>Wireless Networking</td>
<td>As, CA, SC</td>
</tr>
<tr>
<td>Environmental Horticulture &amp; Design</td>
<td>AA, CC, CP, CS</td>
</tr>
<tr>
<td>French</td>
<td>AS, CC</td>
</tr>
<tr>
<td>General Electrician</td>
<td>AS, AS</td>
</tr>
<tr>
<td>General Studies</td>
<td>AA</td>
</tr>
<tr>
<td>Humanities</td>
<td>AA</td>
</tr>
<tr>
<td>Science</td>
<td>AS</td>
</tr>
<tr>
<td>Social Science</td>
<td>AA</td>
</tr>
<tr>
<td>Geographic Information Systems (GIS)</td>
<td>CA, CCC</td>
</tr>
<tr>
<td>Geography</td>
<td>AA, CA, CCC</td>
</tr>
<tr>
<td>Geology</td>
<td>AS</td>
</tr>
<tr>
<td>Gerontology</td>
<td>CC</td>
</tr>
<tr>
<td>German</td>
<td>CS</td>
</tr>
<tr>
<td>Graphic &amp; Interactive Design</td>
<td>AA, CA, SC</td>
</tr>
<tr>
<td>Art Media</td>
<td>SC</td>
</tr>
<tr>
<td>Book Arts</td>
<td>SC</td>
</tr>
<tr>
<td>Illustration</td>
<td>SC</td>
</tr>
<tr>
<td>Graphic Design</td>
<td>SC</td>
</tr>
<tr>
<td>Motion Graphics</td>
<td>SC</td>
</tr>
<tr>
<td>Printmaking</td>
<td>SC</td>
</tr>
<tr>
<td>Printmaking Studio</td>
<td>SC</td>
</tr>
</tbody>
</table>

**Legend**

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

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

<table>
<thead>
<tr>
<th>Program</th>
<th>Completion Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software</td>
<td>SC</td>
</tr>
<tr>
<td>Video Design</td>
<td>SC</td>
</tr>
<tr>
<td>Web Design</td>
<td>SC</td>
</tr>
<tr>
<td>Help Desk/Tech Support</td>
<td>AS, CCC, SC</td>
</tr>
<tr>
<td>History</td>
<td>AA</td>
</tr>
<tr>
<td>Individual Studies: Transfer Preparation</td>
<td>AA, AS</td>
</tr>
<tr>
<td>Informatics</td>
<td>AS, CA, SC</td>
</tr>
<tr>
<td>Interactive &amp; Multimedia Technologies</td>
<td>AS, CA, SC</td>
</tr>
<tr>
<td>Internet Technology</td>
<td>AS, CA, CP, SC</td>
</tr>
<tr>
<td>AJAX</td>
<td>CP</td>
</tr>
<tr>
<td>Dreamweaver</td>
<td>CA</td>
</tr>
<tr>
<td>Electronic Business</td>
<td>CA, SC</td>
</tr>
<tr>
<td>Web-Based Multimedia</td>
<td>SC</td>
</tr>
<tr>
<td>Web Development</td>
<td>SC, CP</td>
</tr>
<tr>
<td>Web Programming</td>
<td>CA</td>
</tr>
<tr>
<td>Web Administration</td>
<td>CA</td>
</tr>
<tr>
<td>Web Publishing</td>
<td>CCC, SC</td>
</tr>
<tr>
<td>Japanese</td>
<td>AA, CP</td>
</tr>
<tr>
<td>Korean</td>
<td>CP</td>
</tr>
<tr>
<td>Law &amp; Society (Pre-Law)</td>
<td>AA</td>
</tr>
<tr>
<td>Leadership &amp; Community Service</td>
<td>CS</td>
</tr>
<tr>
<td>Linguistics</td>
<td>AA, CS</td>
</tr>
<tr>
<td>Mathematics</td>
<td>AS</td>
</tr>
<tr>
<td>Music General</td>
<td>AA</td>
</tr>
<tr>
<td>Music Technology</td>
<td>AA, CA</td>
</tr>
<tr>
<td>Nanoscience</td>
<td>AS, CA, CP</td>
</tr>
<tr>
<td>Paramedic</td>
<td>AS, CA</td>
</tr>
<tr>
<td>Personal Trainer</td>
<td>CA</td>
</tr>
<tr>
<td>Pharmacy Technician</td>
<td>AS, CA</td>
</tr>
<tr>
<td>Philosophy</td>
<td>AA</td>
</tr>
<tr>
<td>Photography &amp; Digital Imaging</td>
<td>AA, CA, SC</td>
</tr>
<tr>
<td>Physical Education</td>
<td>AA</td>
</tr>
<tr>
<td>Athletic Injury Care</td>
<td>AA</td>
</tr>
<tr>
<td>Physics</td>
<td>AS</td>
</tr>
<tr>
<td>Political Science</td>
<td>AA</td>
</tr>
<tr>
<td>Primary Care Associate</td>
<td>AS, CA</td>
</tr>
</tbody>
</table>

**Legend**

- **AA** Complete this program in approximately two years and earn the Associate in Arts Degree. See a counselor and refer to page 59 for requirements.
- **AS** Complete this program in approximately two years and earn the Associate in Science Degree. See a counselor and refer to page 59 for requirements.
- **CA** Complete this program and earn the Certificate of Achievement. See division office for requirements.
- **CC** Complete this program and earn the Certificate of Completion. See division office for requirements.
- **CCC** Complete this program and earn the Career Certificate. See division office for requirements.
- **CP** Complete this program and earn the Certificate of Proficiency. See division office for requirements.
- **CS** Complete this program and earn the Certificate of Specialization. See division office for requirements.
- **SC** Complete this program and earn the Skill Certificate. See division office for requirements.

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

<table>
<thead>
<tr>
<th>Program</th>
<th>Completion Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology</td>
<td>AA</td>
</tr>
<tr>
<td>Radiation Therapy</td>
<td>AS</td>
</tr>
<tr>
<td>Radio Broadcasting</td>
<td>AA, CA, SC</td>
</tr>
<tr>
<td>Radiologic Technology</td>
<td>AS</td>
</tr>
<tr>
<td>Real Estate</td>
<td>AA, CA, CCC</td>
</tr>
<tr>
<td>Respiratory Therapy</td>
<td>AS</td>
</tr>
<tr>
<td>Sociology</td>
<td>AA, CA, CS</td>
</tr>
<tr>
<td>Spanish</td>
<td>AA, CP, CS, CCC</td>
</tr>
<tr>
<td>Special Education</td>
<td>AA, CA</td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>AA, CCC</td>
</tr>
<tr>
<td>Theatre Technology</td>
<td>AA, CA, CCC</td>
</tr>
<tr>
<td>Travel Careers</td>
<td>AA, CCC, CP</td>
</tr>
<tr>
<td>Veterinary Technology</td>
<td>AS, CC</td>
</tr>
<tr>
<td>Video Arts</td>
<td>AA, CP, CCC, CS</td>
</tr>
<tr>
<td>Media Studies</td>
<td>AA, CA, CC, CP</td>
</tr>
<tr>
<td>Production</td>
<td>AA, CCC, SC</td>
</tr>
<tr>
<td>Video &amp; Computer Game Design</td>
<td>AS, CCC</td>
</tr>
<tr>
<td>Women's Studies</td>
<td>AA</td>
</tr>
</tbody>
</table>

## Legend

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

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

—De Tran, Editor,
Viet Mercury Newspaper

Academic Policies

Revision of College Policies

Admission & Enrollment Policies

Academic Disqualification,
Course Substitutions & Graduation Requirements

College & District Policies
Academic Policies

Revision of College Policies

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

Admission & Enrollment Policies

Academic Prerequisites, Credit & Placement

Many courses require that you complete prerequisites in order to enroll. These prerequisites are listed under each course description in this catalog and the Schedule of Classes. All courses listed with a prerequisite have a registration block. If you have completed a course to fulfill the prerequisite requirement at another college, you must first provide a transcript and consult with a Foothill College counselor. To schedule a consultation, call (650) 949-7423.

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

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

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

Admission Guidelines

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

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

Challenging Prerequisites

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

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

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

Open Course Policy

It is the policy of the Foothill-De Anza Community College District that, unless specifically exempted by statute or regulation, every course, course section or class reported for state aid, wherever offered and maintained by the district, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to regulations contained in California Administrative Code Title V commencing with Section 55200.
Enrolled Student Classifications

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

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

Exceptions to Admissions & Registration Policies

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

General Program Requirements

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

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

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

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

General Registration Information

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

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

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

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

Residency Requirements

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

If you are an out-of-state student, you are considered a non-resident until you have satisfied current California residency requirements. This rule applies to visa-holding, non-citizens eligible to establish residency. Non-resident tuition is required of all students in this category. The student who has had a change in residency, and was initially charged out-of-state fees in error, may request a refund within the academic year (prior to June 30) of the documented residency change.

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 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. You may receive no more than four W marks in any one course. For Summer Session class drop dates, consult the current Schedule of Classes.

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.

Assignments & Examinations Regulations

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

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

Audit Request Procedures

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

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

Cancellation of Classes

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

Class Preparation/Progress

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

Class Size & Frequency

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

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

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

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

Course Repetition

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

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

Credit by Examination (Challenge)

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

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

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

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

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

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

Transfer Credit from Another Institution

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

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

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

Final Examinations

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

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

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

Course Grading Categories

Foothill offers course grades in these five categories:

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

**Grading Scale**

Grade definitions are as follows:

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

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

**Incomplete**

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

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

**Withdraw from College**

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

**Transcripts**

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

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

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

**Transcript/Grade Changes**

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

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

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

**High School Credits at Foothill**

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

- The subjects necessary to complete graduation requirements, and the number of quarter credits in each;
Suggestions for Foothill courses to satisfy these requirements;

The total number of quarter credits required, including electives; and

Acceptance of credit for courses taken at Foothill.

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

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

Honors Institute

If you have strong academic motivation and demonstrated potential, Foothill offers honors courses. To qualify, you must satisfy a combination of prerequisites that include grade point average and English writing skills. For details and the program application, access www.foothill.edu/hon.

The Honors Institute features courses and co-curricular activities that challenge you and help prepare you for transfer to four-year colleges and universities; registration priority to assure better access to desired classes; discussions and projects to stimulate intellectual development; complimentary tickets to cultural events; small seminars; transcript notation of honors scholar; recognition at commencement; scholarship opportunities; and other benefits. The Foothill Honors Institute is one of a select few programs at Northern California community colleges that is approved for the UCLA Preferred Admission Transfer Alliance Program. For more information, access www.foothill.edu/hon or call (650) 949-7638.

Off-Campus Trips & Activities

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

Open-Entry/Open-Exit Classes

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

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

Scholastic Honors

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

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

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

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

Student Access to Education Records

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

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

- Education records generally include documents related to admissions, enrollment in classes, grades and related academic information. These records are filed in the Admissions & Records Office.
- The registrar is the college's designated records officer.
- Personal education records will be made available for inspection and review during normal business hours to currently and formerly enrolled students, within 45 days following completion and filing of a written request with the records officer.
The college may release certain types of directory information unless you notify the records officer that certain or all information cannot be released without personal consent. Directory information may include (1) student name and city of residence, (2) date and place of birth, (3) participation in recognized activities and sports, (4) dates of attendance, (5) degrees and awards received, and (6) the most recent previous educational agency or institution attended, and (7) height and weight of members of athletic teams, which may be released only by the appropriate athletic staff member or athletic director. Objection to the release of this information must be made in writing to the Admissions & Records Office prior to the first day of instruction of any quarter or Summer Session.

College & District Policies

Academic Honor Code

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

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

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

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

What Is Academic Dishonesty?

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

- Cheating is the act of obtaining or attempting to obtain credit for academic work through the use of dishonest, deceptive or fraudulent means.

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

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

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

**Cheating**

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

**Plagiarism**

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

**Other Specific Examples of Academic Dishonesty**

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

**Consequences of Academic Dishonesty**

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

Academic consequences may include:

1. Receive a failing grade on the test, paper or exam;
2. Have your course grade lowered;
3. Receive a grade of F in the course;
Administrative consequences may include:
1. Be placed on disciplinary probation;
2. Be placed on disciplinary suspension; or
3. Be expelled.

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

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 2002; or call (650) 949-7241.

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

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

Limited English Skills Policy

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

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

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

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

Reglamento de la No-Descriminación

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

Sexual Harassment Protection Policy

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

Sexual harassment may include, but is not limited to:

- Conduct of a sexual nature that is explicitly or implicitly made a term or condition of an individual’s employment or education;
- A decision based on the submission to or rejection of a sexual advance; or
- Verbal or physical conduct of a sexual nature that interferes with an individual’s performance or creates an intimidating work or educational environment.

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

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

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

Title IX Procedural Requirements

Title IX is a comprehensive federal law that prohibits discrimination on the basis of sex in any federally funded education program or activity. In addition to traditional educational institutions, Title IX also applies to any education or training program operated by a recipient of federal financial assistance. Many of these education programs became subject to Title IX regulations in 2000. Foothill College has responsibilities to ensure that students and employees comply with the non-discrimination mandate of Title IX and its procedural requirements.

Foothill College has established a method for receiving and resolving sex-based discrimination complaints. At Foothill College, Pat Hyland, dean of Faculty & Staff, is the institution’s designated Title IX coordinator. For information, call (650) 949-7090 or visit Room 1905.

Mutual Respect Policy

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

Decisions regarding discipline of employees will be made in accordance with applicable legal and contractual provisions and procedures, and may range from reprimand to dismissal.
Complaints & Grievance Process

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

Drug-Free Campus Policy

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

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

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

No Smoking Policy

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

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

This policy relies on the consideration and cooperation of smokers and non-smokers. It is the responsibility of all members of the district to observe and follow the guidelines. This policy shall be communicated to all employees annually and published in the colleges’ Schedule of Classes, handbooks, Web sites, and other appropriate locations.

(Santa Clara County Ordinance No. 625.4; City of Cupertino Ordinance No. 1647; Labor Code 6404.5; Approved 1/8/96; Amended 8/16/99, 12/2/02, 6/20/05)

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

Parking Citations & Traffic Violations

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

Police Conduct

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

Student Grievance Procedures

So that you are fully aware of student rights and responsibilities, you should also review the Foothill College Student Conduct & Due Process Booklet. The administrative and board policies referred to in this section are also available online at www.fhda.edu. Printed versions of both booklets are available from Student Affairs & Activities in Room 2002, the dean of Faculty & Staff (Room 1905), and the Foothill-De Anza Community College District Chancellor’s Office located on the Foothill College campus.

Purpose

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

- Act or threat of intimidation or harassment. These procedures do not apply to sexual harassment or illegal discrimination. Sexual harassment or complaints on the basis of race, color, national or ethnic origin, age, gender, sexual orientation, marital status, or physical or mental disability should be directed to the dean of Student Affairs & Activities at Foothill College, the dean of Student Development & EOPS at De Anza College or the Foothill-De Anza Community College District Human Resources Office.
- Act or threat of physical aggression.
- Arbitrary action or imposition of sanctions without proper regard to academic due process specified in the college procedures, unrelated to disciplinary actions.
- The exercise of rights of free expression protected by state and federal constitutions and Education Code Section 76120.

This procedure does not apply to:
- Student disciplinary actions, which are covered under separate board policies and administrative procedures. (See Administrative Procedure 5520: Student Due Process & Discipline.)
- Police citations (i.e. “tickets”). Complaints about citations must be directed to the Santa Clara County Superior Court Parking Violations Office in the same way as any traffic violation.
- Sexual harassment. Complaints of sexual harassment should be directed to the dean of Student Affairs & Activities at Foothill College or the dean of Student Development & EOPS at De Anza College.
- Illegal discrimination. Complaints of discrimination on the basis of race, color, national or ethnic origin, age, gender, sexual orientation, marital status, or physical or mental disability filed against an employee of the district should be directed to the dean of Student Affairs & Activities at Foothill College or the dean of Student Development & EOPS at De Anza College.
- Residence determination. Student should contact the associate registrar at Foothill College or the director of Admissions & Records at De Anza College.

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

Definitions

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

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

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

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

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

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

Informal Resolution of Grievances

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

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

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

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

Steps in the Informal Process Involving College Employees

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

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

Formal Grievance Process

Grievance Hearing Committee

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

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

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

Request for Grievance Hearing

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

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

The determination that the Statement of Grievance presents sufficient grounds for a hearing shall be made if the following are found to be true:
1. The statement contains facts, which, if true, would constitute a grievance under these procedures;
2. The grievant is a student as defined in these procedures, which include applicants and former students;
3. The grievant is personally and directly affected by the alleged grievance;
4. The grievance was filed in a timely manner;
5. The grievance is not clearly frivolous, clearly without foundation, or clearly filed for purposes of harassment.
The members of the grievance hearing committee and for maintaining decorum at the hearing. The grievance hearing committee chair is responsible for hearing procedure

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

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

- The members of the grievance hearing committee shall be provided with a copy of the grievance and any written response provided by the respondent before the hearing begins.
- Each party to the grievance may call witnesses and introduce oral and written testimony relevant to the issues of the matter.
- Formal rules of evidence shall not apply. Any relevant evidence shall be admitted.
- Unless the grievance hearing committee determines to proceed otherwise, each party to the grievance shall be permitted to make an opening statement. Thereafter, the grievant or grievants shall make the first presentation, followed by the respondent or respondents. The grievant(s) may present rebuttal evidence after the respondent(s)' evidence. The burden shall be on the grievant or grievants to prove by substantial evidence that the facts alleged are true and that a grievance has been established as specified above.
- Each party to the grievance may represent himself or herself, and may also have the right to be represented by a person of his or her choice; except that a party shall not be represented by an attorney unless, in the judgment of the grievance hearing committee, complex legal issues are involved. If a party wishes to be represented by an attorney, a request must be presented not less than 10 work days prior to the date of the hearing. If one party is permitted to be represented by an attorney, any other party shall have the right to be represented by an attorney. The hearing committee may also request legal assistance; any legal advisor provided to the hearing committee may sit with it in an advisory capacity to provide legal counsel but shall not be a member of the panel nor vote with it.

- Hearings shall be closed and confidential unless all parties request that it be open to the public. Any such request must be made no less than five work days prior to the date of the hearing. In a closed hearing, witnesses shall not be present at the hearing when not testifying, unless all parties and the committee agree to the contrary.
- The hearing shall be recorded by the grievance officer either by tape recording or stenographic recording, and shall be the only recording made. No witness who refuses to be recorded may be permitted to give testimony. In the event the recording is by tape recording, the grievance hearing committee chair shall, at the beginning of the hearing, ask each person present to identify themselves by name, and thereafter shall ask witnesses to identify themselves by name. The tape recording shall remain in the custody of the district, either at the college or the district office, at all times, unless released to a professional transcribing service. Any party may request a copy of the tape recording.
- All testimony shall be taken under oath; the oath shall be administered by the grievance hearing committee chair. Written statements of witnesses under penalty of perjury shall not be used unless the witness is unavailable to testify. A witness who refuses to be tape-recorded shall be considered to be unavailable.
- The grievance hearing committee shall prepare and send a decision to the grievance officer. The decision will be forwarded by the grievance officer to the grievant within 14 work days. The decision shall include specific factual findings regarding the grievance, and shall include specific conclusions regarding whether a grievance has been established as defined above. The decision shall also include a specific recommendation regarding the relief to be afforded the grievant, if any. The decision shall be based only on the record of the hearing, and not on matter outside of that record. The record consists of the original grievance, any written response, and the oral and written evidence produced at the hearing.

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

Misuse of Computer Information & Resources Policy

This administrative procedure implements FHDA Board Policy 3250: Procedures Regarding Misuse of Computer Information.

Abuse of computing, networking or information resources contained in or part of the district network may result in the loss of computing privileges. Additionally, abuse can be prosecuted under applicable statues. Users may be held accountable for their conduct under any applicable district or college policies, procedures, or collective bargaining agreements. Complaints alleging abuse of the district network will be directed to those responsible for taking appropriate disciplinary action. Illegal reproduction of material protected by U.S. Copyright Law is subject to civil damages and criminal penalties, including fines and imprisonment.

Examples of behaviors constituting abuse which violate District Board Policy 3250 include, but are not limited to, the following activities:

System Abuse
- Using a computer account that one is not authorized to use.
- Obtaining a password for a computer account that one is not authorized to have.
- Using the district network to gain unauthorized access to any computer systems.
- Knowingly performing an act which will interfere with the normal operation of computers, terminals, peripherals or networks.
- Knowingly running or installing on any computer system or network, or giving to another user, a program intended to damage or to place excessive load on a computer system or network. This includes but is not limited to programs known as computer viruses, Trojan horses and worms.
- Knowingly or carelessly allowing someone else to use your account who engages in any misuse in violation of District Board Policy 3250.
- Forging e-mail messages.
- Attempting to circumvent data-protection schemes or uncover or exploit security loopholes.
- Masking the identity of an account or machine.
- Deliberately wasting computing resources.
- Downloading, displaying uploading or transmitting obscenity or pornography, as legally defined.
- Attempting without district authorization to monitor or tamper with another user’s electronic communications, 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 202; (650) 949-7241.

Crime Awareness & Campus Security Summary Report

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

<table>
<thead>
<tr>
<th>Crime</th>
<th>2007</th>
<th>2006</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggravated Assault</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Arson</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Burglary</td>
<td>5</td>
<td>26</td>
<td>6</td>
</tr>
<tr>
<td>Homicide</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Vehicle Theft</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Rape</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Robbery</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Arrests / Year</th>
<th>2007</th>
<th>2006</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohol Violations</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Drug Violations</td>
<td>4</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Warrants/Other</td>
<td>2</td>
<td>0</td>
<td>5</td>
</tr>
</tbody>
</table>
Student Right-To-Know Summary Report

In compliance with the federal government, Foothill College provides the following summary of first-time, full-time, degree-seeking students entering Foothill College in Fall Quarter 2004:

- Students completing A.A./A.S./Certificate: 50.71 percent
- Students who transferred out: 19.18 percent
- Total completers/transfers: 69.89 percent

1 The cohort is made up of students entering college for the first time in the fall term, who in the fall term declared a goal of transfer, associate degree or certificate and completed one or more college-level credit courses in the fall term.

2 The term transferred out is defined as the student who transferred to a University of California campus, or California State University campus, or another California community college campus.

3 Completers are students who within a degree-year period completed the requirements for an associate degree, certificate, or transferred out of the college, or were prepared to transfer which is defined as successfully completing 84 or more transferable units and achieving a grade point average equal to or greater than 2.0 (out of a possible 4.0).

Use of Photography

Foothill College, a non-profit California Community College, reserves the right to use photographs, motion pictures and electronic images of students and visitors, age 18 and older, taken on college property and at college-sponsored events, for marketing and promotional purposes. Objection to the use of an individual’s photograph may be made in writing to the Marketing Office, Room 1930.
“After high school, I didn’t know which four-year university I wanted to attend or what major I wanted to study. I enrolled at Foothill College, and little did I know that my decision was the turning point of my life.

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

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

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

Requirements

Associate in Arts or Associate in Science Degree Graduation Requirements

Course Numbering System

Certification of General Education for Transfer

Four-Year Institution Requirements

Preparation for Transfer to Four-Year Colleges & Universities

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

Intersegmental General Education Transfer Curriculum (IGETC)

California State University General Education Breadth Requirements

Major & Certificate Requirements
Requirements

Associate in Arts or Associate in Science Degree Graduation Requirements

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

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

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

General Education Reciprocity

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

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

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 8301.

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 page 84 or www.foothill.edu.

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:

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

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

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

*Basic Skills: Limitations & Waivers

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

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

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

Certification of General Education for Transfer

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

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

Articulation Agreements

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

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

Transfer Admission Agreements

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

The following institutions offer Transfer Admission Agreements for Foothill students:

- Cornell University*
- CSU Monterey Bay
- CSU East Bay
- Golden Gate University
- Menlo College
- Mills College†
- National Hispanic University
- Notre Dame de Namur University
- San Francisco State University (CSU)
- San Jose State University (CSU)
- Santa Clara University
- UC Davis
- UC Irvine†
- UC Los Angeles†
- UC Merced†
- UC Riverside
- UC San Diego
- UC Santa Barbara
- UC Santa Cruz
- University of San Francisco
- University of the Pacific

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

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

University of California Breadth General Education Requirements

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

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

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

Preparation for Transfer to Four-Year Colleges & Universities

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

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

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

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

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

Lower-Division Transfer

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

Upper-Division Transfer

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

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

Major Requirements

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

Transfer to the University of California

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

Oversubscribed Programs

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

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

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

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

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

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

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

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

Priority Application Filing Period

Students are encouraged to apply during the following application periods:

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

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

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

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

**AREA I—HUMANITIES**

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


**AREA II—ENGLISH**

ENGL 1A, 1AH or ESL 26.

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

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

**AREA V—COMMUNICATION & ANALYTICAL THINKING**

CIS 12A, 15A, 18, 25A; ENGL 1B, 1BH, 4; MATH 1A, 1B, 1C, 2A, 2B, 10, 11, 12, 22, 44, 46, 49, 51; PHIL 1, 7, 8, 50; COMM 1A, 1B, 2, 3, 4, 12, 24, 30, 46, 55.

**AREA VI—AMERICAN CULTURES & COMMUNITIES**

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

**AREA VII—LIFELONG UNDERSTANDING**

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

BIOL 8, 9, 45; BUSI 91L; CIS 2, 50A, 60; COIN 51; COMM 2, 10, 12; CNSL 1, 2, 72, 80, 90; CRLP 55, 70; HLTH 21; H P 48; any physical activity course (H P) or ALAP 60, 60X, 61, 61X, 62, 62X, 63, 63X, 64, 64X, 65, 65X, 66, 66X, 70, 70X, 71, 71X, 80, 80X; LIBR 1, 50, 71; SOC 19, 40; SOSC 20; SPED 52, 61, 72

**PETITION FOR GRADUATION**

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

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

Note: If you intend to transfer to a four-year school, you must complete additional requirements for general education. You are strongly encouraged to meet frequently with a Foothill counselor. State regulations provide that only one English or ESL course below transferable freshman composition may apply toward the associate degree. At Foothill, those courses are ENGL 110 or ESL 25.

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

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

Effective Fall 2007

Foothill College 2008–2009 www.foothill.edu
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 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

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

**Group C:** Oral Communication (CSU requires only) one course: 4–5 quarter units

**AREA 2—MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING**

One course: 4–5 quarter units

CIS 1B, MATH 1A, 1B, 1C, 1D, 2A, 2B, 10, 11, 12, 22, 44, 49.

**AREA 3—ARTS & HUMANITIES**

At least three courses, with at least one course from Arts and one course from Humanities—9 semester; 12–15 quarter units.

**Arts:** ART 1, 2A, 2AH, 2B, 2BH, 2C, 2CH, 2D, 2E, 3, 11, 12, 13, 14, 16; DANC 10; ENGL 42A, 42B, 42C; MUS 1, 2A, 2B, 2C, 2D, 3A, 3B, 3C, 7, 7D, 7E, 8, 8H, 10, 27, 64A, 64B, 64C, 85A, 85B; PHIL 11; PHOT 8, 8H; VART 1, 2A, 2B, 2C, 3; WMN 15


*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, 17B or 17C

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

For updated information, access www.assist.org

Effective Fall 2007.
California State University General Education Breadth Requirements

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

**AREA A—COMMUNICATION IN THE ENGLISH LANGUAGE & CRITICAL THINKING**

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

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

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

A-3 Critical Thinking: (select one course)
   PHIL 1, 7, 50; ENGL 1B, 1BH, 1C, 1CH

**Area B—Physical Universe & Its Life Forms**

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

Complete one course from B-4.

B-1 Physical Science: ASTR 10A, 10B, 10BH, 10L*; CHEM 1A*, 1B*, 1C*, 1D*, 12A*, 12B*, 12C*, 25*, 30A*, 30B*; GEOG 1*; GEOL 3, 7, 10*, 11L*, 22, 25*, MET 10, 10L*; OCEN 10; PHYS 2A*, 2B*, 2C*, 4A*, 4B*, 4C*, 4D*, 6, 10*, 12

B-2 Life Science (Biological): ANTH 1, 1L*; BIOL 1A*, 1B*, 1C*, 1D, 1DL*, 9, 9L*, 10*, 12, 13*, 14*, 15*, 17, 40A*, 40B*, 40C*, 45; HORT 10*

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

**Area C—Arts, Literature, Philosophy & Foreign Language**

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

C-1 Arts (Art, Dance, Music, Theatre): ART 1, 2A, 2AH, 2B, 2BH, 2C, 2CH, 2D, 2E, 3, 4A with 4AX, 4C with 4CX, 6, 11, 12, 13, 14, 45A with 45AX, 66, 80; COMM 24, 30; DANC 10; ENGL 42A, 42B, 42C; MUS 1, 2A, 2B, 2C, 2D, 3A, 3B, 3C, 7, 7D, 7E, 8, 8H, 10, 12, 13A, 14A, 15A, 17, 40A*, 40B*, 40C*, 41*, 45; HORT 10*

C-2 Humanities (Literature, Philosophy, Foreign Languages): ARBC 1, 2, 3; CHIN 1, 2, 3, 4, 5, 6, 25A, 25B; COMM 12, 30, 46; CRWR 6, 39A, 39B, 40, 41A, 41B, 60; ENGL 1B, 1BH, 5, 6, 7, 8, 11, 11H, 12, 14, 17, 22, 25, 25H, 26, 30, 31, 32, 40, 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, 25A, 25B, 39; HIST 1A, 2B, 4C, 4D, 4E; HUMN 1A, 1B; JPN 1, 2, 3, 4, 5, 6, 25A, 25B, 33; KORE 1, 2, 3, 4, 5, 6, 25A, 25B, 39; PHIL 1, 2, 4, 8, 20A, 20B, 22, 24, 25; SPAN 1, 2, 3, 4, 5, 6, 10A, 25A, 25B, 39; THTR 1A, 2B, 2C, 30; 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, 17B or 17C.

2. Complete at least one course from D-1 through D-0:
   - D-1 Anthropology & Archaeology: ANTH 2A, 2B, 3, 4, 5, 6, 8, 8L, 8LY, 11, 50
   - D-2 Economics: ECON 1A, 1B, 9, 25; GEOG 5
   - D-3 Ethnic Studies: Some CSU campuses have specific courses to meet this requirement. ANTH 2B, 4, 6, 11; CHLD 11; COMM 12; ENGL 12, 31; HIST 10; MUS 8; PHIL 24, 25; PHOT 8, 8H; POLI 7; PSYC 21, 22; SOC 21, 23; SOSC 20; WMN 21
   - D-4 Gender Studies: ART 2E; COMM 10; ENGL 22; PSYC 21; SOC 21; WMN 5, 11, 15, 21
   - D-5 Geography: GEOG 2, 5, 9, 10
   - D-6 History: HIST 4A, 4B, 4C, 4H, 8, 9, 9H, 10, 15, 16, 16H, 17A, 17B, 17C, 18, 19, 20, 23A, 24, 30; POLI 24
   - D-7 Interdisciplinary Social or Behavioral Science: CHILD 11, 55; ENGL 26; HIST 18, 19; LING 26; PHED 2; SOC 8; SOSC 20
   - D-8 Political Science, Government & Legal Institutions: COMM 6; ECON 9; GERM 8; HIST 30; POLI 1, 2, 2H, 3, 3H, 5, 7, 8, 9, 9H, 15, 15H, 24
   - D-9 Psychology: CHLD 50A, 55; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 33, 40, 49, 55; SOC 10, 21, 30; WMN 21
   - D-0 Sociology & Criminology: PSYC 10, 21, 30; SOC 1, 8, 10, 11, 15, 20, 21, 23, 30, 40; WMN 21

**Area E—Lifelong Understanding & Self-Development**

A minimum of four quarter units from the following:

1. BIOL 8
2. CNSL 2, 72, 80
3. CRLP 70
4. HLTH 21
5. PHED 4

(maximum allowed: 2 units)

For updated information, access www.assist.org

Effective Fall 2007

For updated information, access www.assist.org
Accounting

Program Type(s):
AA Degree, Certificate of Achievement, Certificate of Proficiency, Career Certificate

Units required for major: 47, certificate: 9–37

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

Elective Courses: (10 units)
ACTG 51A Intermediate Accounting I (4 units)
ACTG 51B Intermediate Accounting II (4 units)
ACTG 51C Intermediate Accounting III (4 units)
ACTG 64A Computerized Accounting Practice (2 units)
ACTG 64B Computerized Accounting Programs (2 units)
ACTG 65 Payroll & Business Tax Accounting (4 units)
ACTG 66 Cost Accounting (4 units)
ACTG 68A Advanced Tax Accounting I (4 units)
ACTG 68B Advanced Tax Accounting II (4 units)
ACTG 68C Advanced Tax Accounting III (3 units)
BUSI 19 Business Law II (4 units)
BUSI 53 Survey of International Business (4 units)
or BUSI 61 Investment Fundamentals (3 units)
ECON 1A Principles of Macroeconomics (5 units)
or ECON 1B Principles of Microeconomics (5 units)

Certificate Information
Request certificate forms at www.foothill.edu/bss

Accounting Certificate of Achievement (37 units)
Awarded after completion of the accounting core courses.

Career Certificate in Tax Accounting (28 units)
ACTG 1A Financial Accounting I (5 units)
ACTG 1B Financial Accounting II (5 units)
ACTG 64B Computerized Accounting Programs (2 units)
ACTG 67 Tax Accounting (5 units)
ACTG 68A Advanced Tax Accounting I (4 units)
ACTG 68B Advanced Tax Accounting II (4 units)
ACTG 68C Advanced Tax Accounting III (3 units)

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

Certificate of Proficiency in Accounting (22 units)
ACTG 1A Financial Accounting I (5 units)
ACTG 1B Financial Accounting II (5 units)
ACTG 64A Computerized Accounting Practice (2 units)
ACTG 64B Computerized Accounting Programs (2 units)
ACTG 51A Intermediate Accounting I (4 units)
or ACTG 65 Payroll & Business Tax Accounting (4 units)
BUSI 22 Principles of Business (4 units)

Certificate of Proficiency in Accounting (22 units)
ACTG 1A Financial Accounting I (5 units)
ACTG 1B Financial Accounting II (5 units)
ACTG 64A Computerized Accounting Practice (2 units)
ACTG 64B Computerized Accounting Programs (2 units)
ACTG 51A Intermediate Accounting I (4 units)
or ACTG 65 Payroll & Business Tax Accounting (4 units)
BUSI 22 Principles of Business (4 units)

Enrolled Agent Preparation Certificate of Proficiency (16 units)
ACTG 67 Tax Accounting (5 units)
ACTG 68A Advanced Tax Accounting I (4 units)
ACTG 68B Advanced Tax Accounting II (4 units)
ACTG 68C Advanced Tax Accounting III (3 units)

Tax Specialist Certificate of Proficiency (13 units)
ACTG 67 Tax Accounting (5 units)
ACTG 68A Advanced Tax Accounting I (4 units)
ACTG 68B Advanced Tax Accounting II (4 units)

Bookkeeping Specialist Certificate of Proficiency (11 units)
ACTG 60 Accounting for Small Business (5 units)
or ACTG 1A Financial Accounting I (5 units)
ACTG 64A Computerized Accounting Practice (2 units)
BUSI 91L Introduction to Business Information Processing (4 units)

Payroll Preparation Certificate of Proficiency (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 Aquatics

Program Type(s):
Career Certificate

Core Courses: (18 units)
SPED 50 Introduction to Adaptive Fitness Techniques (3 units)
SPED 55 Geriatric Fitness Concepts (3 units)
SPED 57 Working with Special Populations (3 units)
SPED 73 Introduction to Aquatic Exercise (3 units)
SPED 74 Principles of Adaptive Aquatic Fitness (3 units)
SPED 75 Internship in Adaptive Aquatics (3 units)
BIOL 14 Human Biology (5 units)
BIOL 40A Human Anatomy & Physiology (5 units)
or BIOL 40B Human 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.

Foothill College 2008–2009 www.foothill.edu
A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

**ADAPTIVE FITNESS**

**Program Type(s):**
AA Degree, Certificate of Achievement

Units required for major: 38, certificate: 25

**Associate Degree Requirements***

**Core Courses:** (30 units)
- BIOL 14 Human Biology (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 73 Introduction to Aquatic Exercise (3 units)

**Support Courses:** (8)
- 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)
- COMM 1A Public Speaking (4.5 units)
- COMM 52 Interpersonal Communication (5 units)
- GERN 50 Sociology of Aging (3 units)
- GERN 51 Psychology of Aging (3 units)
- GERN 52 Health & Aging (3 units)
- GERN 53 Practicum in Senior Services (3 units)
- GERN 70 Successful Aging (2 units)
- GERN 71 Culture Counts: Maintaining Positive Mental Health within a Cultural Context (.5 unit)
- GERN 72 Cross-Cultural Issues in Death & Dying (.5 unit)
- GERN 73 Cultural Issues in Emergency Preparedness & Older Adults (.5 unit)
- GERN 74 Cultural Diversity in Long-Term Care (.5 unit)
- GERN 75 Mental Health Aspects of Diabetes Among Elders from Diverse Backgrounds (1 unit)

**AMERICAN STUDIES**

**Program Type(s):**
AA Degree

Units required for major: 35

**Associate Degree Requirements***

**Core Courses:** (27 units)
- ART 14 American Art (4 units)
- ENGL 41 Literature of Multicultural America (4.5 units)
- HIST 17A History of the United States to 1816 (5 units)
- HIST 17B History of the United States from 1816 to 1914 (5 units)
- MUS 8 Music of Multicultural America (4 units)
  or MUS 8H Honors Music of Multicultural America (4 units)
- POLI 1 Political Science: Introduction to American Government & Politics (5 units)
  or POLI 7 American Government & Politics from a Black Perspective (5 units)

**Support Courses:** (8)
- ANTH 4 First Peoples 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**

**Program Type(s):**
AA Degree, Certificate of Proficiency

Units required for major: 32, certificate: 12–16

**Associate Degree Requirements**

**Core Courses:** (16 units)
Select four of the following:
- ANTH 1 Introduction to Physical Anthropology (4 units)
- ANTH 2A Cultural Anthropology (4 units)
- ANTH 3 Prehistory: The Search for Lost Civilizations (4 units)
- ANTH 4 First Peoples of North America (4 units)
- ANTH 8 Introduction to Archaeology (4 units)

**Support Courses:** (8 units)
- ANTH 2B Patterns of Culture (4 units)
- ANTH 5 Magic, Science & Religion (4 units)
- ANTH 6 Peoples of Africa (4 units)
- ANTH 8L Archaeology Laboratory (1 unit)
- ANTH 11A Archaeological Field Methods (4 units)
- ANTH 11B Archaeology Survey (2 units)
- ANTH 34H Honors Institute Seminar in Anthropology (1–4 units)
- ANTH 35 Department Honors Projects in Anthropology (1–4 units)
- ANTH 50 Medical Anthropology: Methods & Practice (4 units)
- GEOG 1 Physical Geography (5 units)
  or GEOG 2 Human Geography (4 units)

**Elective Courses:** (8 units)
- BIOL 1C Evolution, Systematics & Ecology (6 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)
  or HIST 9H Honors History of Contemporary Europe (4 units)
- HIST 18 Introduction to Middle Eastern Civilization (4 units)
- HIST 19 History of Asia: China/Japan (4 units)
- HUMN 1A Humanities & the Modern Experience (4 units)
- LING 26 Language, Mind & Society (4 units)
  or ENGL 26 Language, Mind & Society (4 units)
- SOC 30 Social Psychology (4 units)
- SOC 40 Aspects of Marriage & Family (4 units)
- SOCS 20 Cross-Cultural Perspectives for a Multicultural Society (4 units)
- WMN 5 Introduction to Women’s Studies (4 units)

**Certificate Information**
Awarded to any student who takes three or more courses in a specific anthropology subfield with a cumulative GPA of 3.0 or higher. Request certificate forms at [www.foothill.edu/bss/cert/index.php](http://www.foothill.edu/bss/cert/index.php)

**Medical Anthropology Certificate of Proficiency** (16 units)
- ANTH 2B Patterns of Culture (4 units)

**Physical Anthropology Certificate of Proficiency** (13 units)
- ANTH 1 Introduction to Physical Anthropology (4 units)
- ANTH 1L Physical Anthropology Laboratory (1 unit)

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

**Medical Anthropology Certificate of Proficiency** (16 units)
- ANTH 50 Medical Anthropology: Methods & Practice (4 units)

**Archaeology Certificate of Proficiency** (12 units)
- Select 8 units from the following:
  - HIST 3 Prehistory: The Search for Lost Civilizations (4 units)
  - ANTH 4 First Peoples of North America (4 units)

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

---

[1] Students may also use courses listed under support courses for electives. One course cannot count for both support and elective units.

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105. Foothill College 2008–2009 www.foothill.edu*
And 4 units from the following:
COMM 12 Intercultural Communication (4 units)
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
or ENGL 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)
or LING 25 Introduction to Descriptive & Historical Linguistics (4 units)
or LING 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)
ENGL 26 Language, Mind & Society (4 units)
or LING 26 Language, Mind & Society (4 units)
GEOG 12 Introduction to Geographic Information Systems (GIS) (5 units)
HIST 9 History of Contemporary Europe (4 units)
or HIST 9H Honors History of Contemporary Europe (4 units)
HUMN 1A Humanities & the Modern Experience (4 units)
MUS 7D Contemporary Musical Styles: The Beatles in the Culture of Popular Music (4 units)
MUS 8 Music of Multicultural America (4 units)
SOC 20 Cross-Cultural Perspectives for a Multicultural Society (4 units)
SOC 30 Social Psychology (4 units)
or PSYC 30 Social Psychology (4 units)
SOC 40 Aspects of Marriage & Family (4 units)
WMN 5 Introduction to Women's Studies (4 units)
ANTH 34H Honors Institute Seminar in Anthropology (1–4 units)
ANTH 35 Department Honors Projects in Anthropology (1–4 units)
ANTH 36 Special Projects in Anthropology (1–4 units)

**ART GENERAL**

**Program Type[s]:**
AA Degree, Certificate of Achievement, Certificate of Specialization

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

**Associate Degree Requirements***

**Core Courses: (28.5 units)**
ART 1 Introduction to Art (4.5 units)
ART 4A Introduction to Drawing (3 units)[2]
ART 4B Intermediate Drawing (3 units)
ART 4C Advanced Drawing (3 units)
or ART 4D Figure Drawing (3 units)
ART 5A Basic Two-Dimensional Design (3 units)[3]
ART 5B Three-Dimensional Design (3 units)
ART 6 Collage & Composition (3 units)
ART 20A Color (3 units)
ART 45A Beginning Ceramics Handbuilding (3 units)[4]

**Support Courses: (Minimum 18)**
ART 2A Art History (4.5 units)
ART 2B Art History (4.5 units)
or ART 2BH Honors Art History (4.5 units)
ART 2C Art History (4.5 units)
or ART 2CH Honors Art History (4.5 units)
ART 2D African, Oceanic & Native American Art (4.5 units)
ART 2E A History of Women in Art (4 units)
ART 3 Modern Art & Contemporary Thought (4.5 units)
ART 4C Advanced Drawing (3 units)
ART 4D Figure Drawing (3 units)
ART 4E Portrait Drawing (3 units)
ART 8 Basic Perspective Drawing (3 units)
ART 11 Introduction to Mexican Art & Architecture (4 units)
ART 14 American Art (4.5 units)
ART 19A Painting (3 units)
ART 19B Painting (3 units)
ART 19C Painting (3 units)
ART 44 Ceramic Sculpture (3 units)
ART 45B Beginning Ceramics Potter's Wheel (3 units)
ART 45C Advanced Ceramics (3 units)
ART 45D Advanced Ceramics Decorating Techniques (3 units)
ART 45F Low-Temperature Ceramic Firing & Glazing Techniques (3 units)
ART 47 Watercolor (3 units)
ART 49 Monoprinting (3 units)
or GID 48 Monoprinting (3 units)
ART 69 Introduction to Printmaking (3 units)
or GID 38 Printmaking I (4 units)
GID 39 Printmaking II (4 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)
GID 90 Book Arts I (4 units)
VART 20 Digital Video Production I (4 units)
or GID 20 Digital Video Production I (4 units)
GID 50 Graphic Design Studio I (4 units)
GID 60 Careers in the Visual Arts (2 units)
GID 74 Digital Art & Graphics (4 units)
PHOT 1 Black & White Photography I (4 units)

**Certificate of Achievement in Art/General (46.5 units)**
Same as A.A. degree, except general education courses are not required.

**Certificate of Specialization in Ceramics (24 units)**
Core Courses: 15 units
ART 45A Beginning Ceramics Handbuilding (3 units)
ART 45B Beginning Ceramics Potter’s Wheel (3 units)
ART 45C Advanced Ceramics (3 units)
ART 44 Ceramic Sculpture (3 units)
ART 72 Studio Art Portfolio Preparation (3 units)

**Support Courses: (choose minimum 9 units)**
ART 4D Advanced Ceramics Decorating Techniques (3 units)
ART 43 Mold Construction for Ceramic Art (3 units)

---

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

Foothill College 2008–2009  www.foothill.edu
A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

**Certificate of Specialization in Two-Dimensional Art (24 units)**

**Core Courses:** 15 units

ART 4A Beginning Drawing (3 units)
ART 4B Intermediate Drawing (3 units)
ART 19A Painting (3 units)
ART 19B Painting (3 units)
ART 19C Painting (3 units)
or ART 47 Watercolor (3–9 units)
ART 20A Color (3 units)

**Support Courses:** (choose 9 units)

Same as those listed for General Art.

**Certificate of Specialization in Painting (24 units)**

**Core Courses:** (18 units)

ART 4A Beginning Drawing (3 units)
ART 4B Intermediate Drawing (3 units)
ART 19A Painting (3 units)
ART 19B Painting (3 units)
or ART 47 Watercolor (3–9 units)
ART 20A Color (3 units)

**Support Courses:** (choose 6 units)

Same as those listed for General Art.

**Certificate of Achievement in Art History (50 units)**

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

**Certificate of Specialization in Art History (16.5 units)**

ART 1 Introduction to Art (4.5 units)
ART 2A Art History (4.5 units)
or ART 2AH Honors Art History (4.5 units)
ART 2B Art History (4.5 units)
or ART 2BH Honors Art History (4.5 units)
ART 2C Art History (4.5 units)
or ART 2CH Honors Art History (4.5 units)
ART 4A Introduction to Drawing (3 units)
ART 4B Intermediate Drawing (3 units)
ART 4C Advanced Drawing (3 units)
or ART 4D Figure Drawing (3 units)
ART 6 Collage & Composition (3 units)
ART 5A Basic Two-Dimensional Design (3 units)
ART 5B Three-Dimensional Design (3 units)
or ART 45A Beginning Ceramics Handbuilding (3 units)
ART 20A Color (3 units)
ART 20B Color (3 units)
ART 72 Studio Art Portfolio Preparation (3 units)
GID 74 Digital Art & Graphics (4 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 4C Advanced Drawing (3 units)
ART 4D Figure Drawing (3 units)
ART 4E Portrait Drawing (3 units)
ART 8 Basic Perspective Drawing (3 units)
ART 19A Painting (3 units)
ART 19B Painting (3 units)
ART 19C Painting (3 units)
ART 47 Watercolor (4 units)
ART 69 Introduction to Printmaking (3 units)
or GID 38 Printmaking I (4 units)
ART 86 Painting with the Computer (3 units)

---

**Program Type(s):**

AA Degree, Certificate of Achievement

Units required for major: 50.5, certificate: 50.5

**Associate Degree Requirements**

**Core Courses:** (41.5 units)

ART 2A Art History (4.5 units)
or ART 2AH Honors Art History (4.5 units)
ART 2B Art History (4.5 units)
or ART 2BH Honors Art History (4.5 units)
ART 2C Art History (4.5 units)
or ART 2CH Honors Art History (4.5 units)
ART 4A Introduction to Drawing (3 units)
ART 4B Intermediate Drawing (3 units)
ART 4C Advanced Drawing (3 units)
or ART 4D Figure Drawing (3 units)
ART 6 Collage & Composition (3 units)
ART 5A Basic Two-Dimensional Design (3 units)
ART 5B Three-Dimensional Design (3 units)
or ART 45A Beginning Ceramics Handbuilding (3 units)
ART 20A Color (3 units)
ART 20B Color (3 units)
ART 72 Studio Art Portfolio Preparation (3 units)
GID 74 Digital Art & Graphics (4 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.

---

**ART STUDIO**

**Program Type(s):**

AA Degree, Certificate of Achievement

Units required for major: 50.5, certificate: 50.5

---

[1] ART 1 recommended before taking art history courses if no previous experience in art.

[2] ART 1 recommended before taking art history courses if no previous experience in art.

[3] ART 1 recommended before taking art history courses if no previous experience in art.
GID 90 Book Arts I (4 units)
VART 20 Digital Video Production I (4 units)
or GID 20 Digital Video Production I (4 units)
GID 40 Digital Printmaking (4 units)
GID 50 Graphic Design Studio I (4 units)
GID 60 Careers in the Visual Arts (2 units)
GID 70 Graphic Design Drawing (4 units)
GID 76 Illustration & Digital Imaging (4 units)
PHOT 1 Black & White Photography I (4 units)
or PHOT 5 Introduction to Photography (4 units)

**Three-Dimensional Art**
ART 5B Three-Dimensional Design (3 units)
ART 43 Mold Construction for Ceramic Art (3 units)
ART 44 Ceramic Sculpture (3 units)
ART 45A Beginning Ceramics: Handbuilding (3 units)[4]
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 Ceramic Firing & Glazing Techniques (3 units)
ART 70 Kiln Design, Construction & Operation (3 units)
THTR 21 Introduction to Technical Theatre (1 unit)
or THTR 21A Scenery & Properties Construction (3 units)

**Art History**
ART 2D African, Oceanic & Native American Art (4.5 units)
ART 2E A History of Women in Art (4.5 units)
ART 3 Modern Art & Contemporary Thought (4.5 units)
ART 11 Introduction to Mexican Art & Architecture (4 units)
ART 14 American Art (4.5 units)

Certificate of Achievement in Art/Studio (50.5 units)
Same as A.A. degree except that general education courses are not required.

**BIOINFORMATICS**

**Program Type(s):**
AS Degree, Certificate of Achievement

Units required for major: 47, certificate: 43

**Associate Degree Requirements**

**Support Courses:**

**Biotechnology Core Courses (13 units)**
BTEC 51A Cell Biology for Biotechnology (3 units)
BTEC 52A Molecular Biology for Biotechnology (3 units)
BTEC 65 Nucleic Acids Electrophoretic Systems: Basic Laboratory Techniques (1 unit)
BTEC 68 Polymerase Chain Reaction: Basic Laboratory Techniques (1 unit)
BTEC 71 DNA Sequencing & Bioinformatics: Basic Laboratory Techniques (2 units)
BTEC 76 Introduction to Microarray Data Analysis (2 units)
BTEC 64 Protein Electrophoretic Systems: Basic Laboratory Techniques (1 unit)
BTEC 66 HPLC: Basic Laboratory Techniques (2 units)

**Computer Science Core Courses (25 units)**
CIS 52A Introduction to Data Management Systems (5 units)
CIS 52B Oracle SQL (5 units)
CIS 68A Introduction to LINUX & UNIX (5 units)
CIS 68E Programming in PERL (5 units)
CON 81 Introduction to Bioinformatics Tools & Databases (5 units)

Certificate of Achievement (43 units)
MATH 10 Elementary Statistics (5 units)
Biotechnology core courses (13 units)
Computer Science core courses (30 units)

---

* [4] ART 45AX is required if transferring to a CSU and using ART 45A to satisfy the humanities requirement.

[5] A letter grade of C or better is required. Course transferability information is available in the Foothill College Catalog, from Foothill College counselors and at www.assist.org.

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

Foothill College 2008–2009  www.foothill.edu
BIOLOGICAL SCIENCES

Program Type(s):

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)

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) (6-6-6 units)

BIOTECHNOLOGY

Program Type(s):

AS Degree, Certificate of Achievement

Units required for major: 76, certificate: 61

Associate Degree Requirements*

Certificate of Achievement (61 units)
Required courses, to be taken in sequence (courses offered once a year.)

Fall Quarter
BTEC 51A Cell Biology for Biotechnology (3 units)
BTEC 51AL Cell Biology Laboratory for Biotechnology (5.5 units)
BTEC 55 Laboratory Safety (3 units)
HORT 52D Horticultural Practices: Biotechnology & Micro-propagation (3 units)

Winter Quarter
BTEC 52A Molecular Biology for Biotechnology (3 units)
BTEC 52AL Molecular Biology Laboratory for Biotechnology (5.5 units)
BTEC 61 Microbial Biotechnology (4.5 units)

Spring Quarter
BTEC 53A Immunology for Biotechnology (3 units)
BTEC 53AL Immunology Laboratory for Biotechnology (5.5 units)
BTEC 54 Biotechnology Externship (4 units)
BTEC 57A Virology for Biotechnology (3 units)

Required courses[1]
LIBR 1 Principles of Library Research (3 units)
CRLP 73 Effective Resume Writing (1 unit)
CRLP 74 Successful Interviewing Techniques (1 unit)
and one of the following:
CIS 50A Using the Computer: Windows (5 units)
CIS 52A Introduction to Data Management Systems (5 units)

BUSINESS ADMINISTRATION

Program Type(s):

AA Degree, Career Certificate, Certificate of Specialization

Units required for major: 51, certificate: 3.5–32

Associate Degree Requirements*

Core Courses: (24 units)
BUSI 22 Principles of Business (4 units)
BUSI 18 Business Law I (5 units)
ACTG 1A Financial Accounting I (5 units)
ACTG 1B Financial Accounting II (5 units)
ACTG 1C Managerial Accounting (5 units)

Support Courses: (27)
BUSI 19 Business Law II (4 units)
or BUSI 53 Survey of International Business (4 units)
BUSI 59 Principles of Marketing (4 units)
BUSI 91L Introduction to Business Information Processing (4 units)
ECON 1A Principles of Macroeconomics (5 units)
ECON 1B Principles of Microeconomics (5 units)
MATH 10 Elementary Statistics (5 units)[6]

CAST 107D Excel: Basics (3 units)
CAST 109F Using Access (3 units)
BTEC Elective Courses (10 units)[2]
BTEC 56X, Y or Z Directed Study (1–3 units)
BTEC 64 Protein Electrophoretic Systems: Basic Laboratory Technique (1 unit)
BTEC 65 Nucleic Acids Electrophoretic Systems: Basic Laboratory Technique (1 unit)
BTEC 66 HPLC: Basic Laboratory Technique (2 units)
BTEC 67 Immunological Assays (1 unit)
BTEC 68 Polymerase Chain Reaction: Basic Laboratory Technique (1 unit)
BTEC 69 Basic Mammalian Cell Culture Techniques (3 units)
BTEC 70 Monoclonal Antibody Production: Hybridoma Technology (1 unit)
BTEC 71 DNA Sequencing & Bioinformatics: Basic Laboratory Technique (2 units)
BTEC 72 HPLC: Basic Laboratory Technique II (2 units)[3]
BTEC 73 Histotechnology in Research (1 unit)
BTEC 74 Overview of Regulatory Affairs (1 unit)
BTEC 75 Immunobiotechnology: Basic Laboratory Technique (2 units)
BTEC 76 Introduction to Microarray Data Analysis (2 units)
V T 86 Laboratory Animal Technology (4 units)[4]
V T 86L Laboratory Animal Methods (1 unit)[5]

[1] To be taken as student schedule permits.

[2] To be taken as student schedule permits. Courses may be repeated.
[6] Consult your counselor for details in meeting math requirements for A.A. degree, CSU and UC requirements in business administration.

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.
Foothill College 2008–2009 www.foothill.edu
CSU campuses require:
MATH 11 Finite Mathematics (5 units)
MATH 12 Calculus for Business & Economics (5 units)

University of California campuses require:
MATH 1A & 1B Calculus

Certificate information:
Request certificate forms at http://bss.foothill.edu/certificates.

Career Certificate Business Management: (32 units)
BUSI 18 Business Law I (5 units)
BUSI 22 Principles of Business (4 units)
or BUSI 53 Survey of International Business (4 units)
BUSI 59 Principles of Marketing (4 units)
BUSI 61 Investment Fundamentals (3 units)
BUSI 91L Introduction to Business Information Processing (4 units)
BUSI 90A Principles of Management (4 units)
ACTG 1A Financial Accounting I (5 units)

Career Certificate in E-Commerce & Electronic Business (31 units)
BUSI 22 Principles of Business (4 units)
or BUSI 53 Survey of International Business (4 units)
BUSI 59 Principles of Marketing (4 units)
BUSI 91L Introduction Business Information Processing (4 units)
or BUSI 95 Entrepreneurship: Small Business Management (4 units)
or CIS 60 Introduction to Business Information Systems (5 units)
COIN 56 E-Business (5 units)
COIN 58 Electronic Commerce Project (5 units)
COIN 61 Publishing on the Web using HTML/XHTML (5 units)
COIN 72 Web Marketing (4 units)

Career Certificate in Entrepreneurship (29 units)
BUSI 95 Entrepreneurship: Small Business Management (4 units)
BUSI 22 Principles of Business (4 units)
BUSI 18 Business Law I (5 units)
BUSI 59 Principles of Marketing (4 units)
BUSI 90A Principles of Management (4 units)
ACTG 1A Financial Accounting I (5 units)
BUSI 91L Introduction to Business Information Processing (4 units)
or BUSI 62 Principles of Salesmanship (3 units)

Career Certificate in Marketing (27 units)
BUSI 18 Business Law I (5 units)
BUSI 22 Principles of Business (4 units)
BUSI 57 Principles of Advertising (4 units)
BUSI 58 Survey of International Marketing (4 units)
BUSI 59 Principles of Marketing (4 units)
BUSI 62 Principles of Salesmanship (3 units)
BUSI 90A Principles of Management (4 units)

Career Certificate in Small Business (7 units)
BUSI 95 Entrepreneurship: Small Business Management (4 units)
BUSI 97 Management Seminar (0.5 unit)
BUSI 133A Starting a Small Business (1 unit)
BUSI 131B How to Start a Home-Based Business (0.5 unit)
BUSI 133E Small Business Marketing, Research & Planning (1 unit)

Career Certificate in Small Business Export-Import (3.5 units)
BUSI 120 Dispute Resolution & Mediation (3.5 units)[8]

Certificate of Specialization: Business-Dispute Resolution (3.5 units)
BUSI 120 Dispute Resolution & Mediation (3.5 units)[8]

BUSINESS INTERNATIONAL STUDIES

Program Type(s):
AA Degree, Certificate of Achievement, Career Certificate

Units required for major: 47, certificate: 27–47

Associate Degree Requirements*

Core Courses: (24 units)
BUSI 53 Survey of International Business (4 units)
BUSI 18 Business Law I (5 units)
ACTG 1A Financial Accounting I (5 units)
ACTG 1B Financial Accounting II (5 units)
ECON 1A Principles of Macroeconomics (5 units)

Support Courses: (23)
Choose 3 courses from the following:
BUSI 95 Small Business Export & Import (3 units)
BUSI 58 Survey of International Marketing (4 units)
BUSI 22 Principles of Business (4 units)
ECON 1B Principles of Microeconomics (5 units)
ECON 25 Introduction to the Global Economy (4 units)
ACTG 1C Financial Accounting (5 units)

At least one course from each of the following subject categories:

- Geography (1 course)
  GEOG 1 Physical Geography (5 units)
  GEOG 2 Human Geography (4 units)
  GEOG 10 World Regional Geography (4 units)

- History (1 course)
  HIST 8 History of Latin America (4 units)
  HIST 9 History of Contemporary Europe (4 units)
or HIST 9H Honors 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 & the Soviet Union (4 units)

- Political Science/Language (1 Course or Language Proficiency)
  POLI 2 Comparative Government & Politics (4 units)
or POLI 2H Honors Comparative Government & Politics (4 units)
  POLI 15 International Relations/World Politics (4 units)
or POLI 15H Honors International Relations/World Politics (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 of Achievement in International Business (47 units)
Awarded after the completion of the core and supporting courses.

Career Certificate in International Business Strategy (27 units)
BUSI 22 Principles of Business (4 units)
BUSI 53 Survey of International Business (4 units)
BUSI 58 Survey of International Marketing (4 units)
BUSI 95 Small Business Export-Import (3 units)

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

Foothill College 2008–2009 www.foothill.edu

[7] 55% of certificate coursework must be completed at Foothill College. Core coursework must be completed with a grade of C or better.

[8] Meets the qualification of 35 hours of continuing education credit for MFTs and LCSWs as required by the California Board of Behavioral Sciences Provider number 1695.
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.

**BUSINESS TECHNOLOGY: OFFICE ADMINISTRATION**

**Program Type(s):**
- A5 Degree, Certificate of Achievement, Career Certificate
- A5 Certificate of Achievement, Skill Certificate

Units required for major: 59–61, certificate: 21–61

**Associate Degree Requirements**

**Business Communication Skill Certificate (21 units)**
- CIS 51A Preparation for Technology Careers I (3 units)
- CIS 60 Introduction to Business Information Systems (5 units)
- BUS 22 Principles of Business (4 units)
- ACTG 1A Principles of Accounting I (5 units)
- MATH 105 Intermediate Algebra (5 units)
- BUS 22 Principles of Business (4 units)

**Certificate Information**

All certificates require English proficiency: ENGL 110, or ESL 25, or equivalent class or test score; math proficiency: MATH 220 or equivalent; additional classes as listed below.

**Level I Career Certificate (19 units)**
Awarded upon the completion of the core courses.

**Level II Certificate of Achievement (A+) (32 units)**
Level I Certificate is required as well as the following classes:
- CNET 116B Windows Installation Upgrading & Troubleshooting (5 units)
- CNET 93U CNET Experiential Internship (3 units)
- CNET 60A Microsoft Windows 2003 Server (5 units)

**Certificate of Achievement (45 units)**
Level II Certificate is required as well as the following classes:
- CNET 60B Implementing, Managing & Maintaining a Microsoft Windows Server 2003 Network Infrastructure (5 units)
- CNET 54B Routers & Router Configuration (CCNA II) (5 units)
- CNET 93U CNET Experiential Internship (3 units)

**A+ Preparation Skill Certificate (10 units)**
Completion of CNET 54A and 95A is highly recommended 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)

**Office Manager: General Office Certificate of Achievement (61 units)**
Requires the Business Communication Certificate and the following:
- ENGL 1A Composition & Reading (5 units)
- or ENGL 1AH Honors Composition & Reading (5 units)
- CIS 96Y Special Project (3 units)
- BUS 22 Principles of Business (4 units)
- ACTG 1A Principles of Accounting I (5 units)
- ACTG 1B Principles of Accounting II (5 units)
- MATH 105 Intermediate Algebra (5 units)
- MATH 10 Elementary Statistics (5 units)
- BUS 22 Principles of Business (4 units)
- CIS 51C Workplace Principles & Practices (4 units)

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

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

**Database/SQL Certificate of Achievement (38 units)**
Requires the Business Communication Certificate and the following:
- CAST 109F Using Access (3 units)
- CIS 52A Introduction to Data Management Systems (5 units)
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.

---

**CIS 52B Oracle SQL** (5 units)  
**CIS 51C Workplace Principles & Practices** (4 units)  

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

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

---

**Chemistry**  
**Program Type(s):**  
AS Degree  
Units required for major: 51  

**Associate Degree Requirements***  
Core Courses: (51 units)  
CHEM 1A General Chemistry (5 units)  
CHEM 1B General Chemistry (5 units)  
CHEM 1C General Chemistry & Qualitative Analysis (5 units)  
CHEM 12A Organic Chemistry (6 units)  
CHEM 12B Organic Chemistry (6 units)  
CHEM 12C Organic Chemistry (6 units)  
CHEM 30B Survey of Organic & Biochemistry (5 units)  
Mathematics (10 units minimum)**[1]**  
MATH 1A Calculus (5 units)  
MATH 1B Calculus (5 units)  
MATH 1C Calculus (5 units)  
MATH 1D Calculus (5 units)  
MATH 2A Differential Equations (5 units)  
Physics (10 units minimum)**[2]**  
PHYS 2A General Physics (5 units)  
PHYS 2B General Physics (5 units)  
PHYS 2C General Physics (5 units)  
PHYS 4A General Physics: Calculus (6 units)  
PHYS 4B General Physics: Calculus (6 units)  
PHYS 4C General Physics: Calculus (6 units)  
PHYS 4D General Physics: Calculus (6 units)  

---

**Child Development**  
**Program Type(s):**  
AA Degree, Certificate of Achievement, Certificate of Specialization  
Units required for major: 40, certificate: 24–80  

**Associate Degree Requirements***  
Core Courses: (15 units)  
CHLD 55 Child Growth & Development (5 units)  
CHLD 56N Introduction to Child Development (4 units)  
CHLD 88 Child, Family & Community (4 units)  
CHLD 88B Positive Behavior Management (2 units)  
Support Courses: (22 units)  
CHLD 11 Affirming Diversity in Education (4 units)  
CHLD 56 Observation Techniques (4 units)  
CHLD 72 Language Development (3 units)  
CHLD 86B Practicum Student Teaching in an Early Childhood Program (5 units)  
CHLD 95 Health, Safety & Nutrition in Children’s Programs (3 units)  

And one of the following:  
CHLD 59 Working with School-Age Children: Principles & Practicum (3 units)  
CHLD 79 Caring for Infants & Toddlers in Groups (3 units)  
CHLD 89 Curriculum for the Preschool Classroom (3 units)  
Elective Courses: (3)  
ENGL 8 Children’s Literature (4 units)  
CHLD 50 School-Age Child (5–12): Behavior & Development (3 units)  
CHLD 50A Infant/Toddler Development (3 units)  
CHLD 53NC Supporting Children with Special Needs in Children’s Programs (3 units)  
CHLD 53NP Atypical Development in Early Years (3 units)  
CHLD 59 Working with School-Age Children: Principles & Practicum (3 units)**[3]**  
CHLD 63N Artistic & Creative Development (3 units)  
CHLD 73 Music & Movement in the Early Years (3 units)  
CHLD 79 Caring for Infants & Toddlers in Groups (3 units)**[4]**  
CHLD 85 Literacy & Literature in Preschool Education (3 units)  
CHLD 86A Mentoring & Professional Development of Early Childhood Professionals (4 units)  
CHLD 89 Curriculum for the Preschool Classroom (3 units)**[5]**  
CHLD 91 Administration & Supervision: Adult Supervision (4 units)  
PSYC 1 General Psychology (5 units)  
PSYC 14 Childhood & Adolescence (4 units)  
Certificate Information  
Request certificate forms at www.foothill.fhda.edu/bss/cert/index.php

---

*Must have a combined 25 units from math and physics.  
** Must have a combined 25 units from math and physics.  

---

* 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.
Child Development Teacher Certificate of Achievement (64 units)[1]

Program Supervision & Mentoring Certificate of Achievement (80 units)[2]

Completion of the Child Development Teacher Certificate of Achievement and the following:

CHLD 86A Mentoring & Professional Development of Early Childhood Professionals (4 units)
CHLD 90B Administration & Supervision: Designing & Starting Child Care Facilities (4 units)
CHLD 90C Administration & Supervision: Program Operation (4 units)
CHLD 91 Administration & Supervision: Adult Supervision (4 units)

Early Childhood Education Certificate of Achievement (25 units)[3]

Core Courses and the following:

CHLD 11 Affirming Diversity in Education (4 units)
CHLD 53NP Atypical Development in the Early Years (3 units)
CHLD 50A Infant/Toddler Development (3 units)
ENGL 8 Children's Literature (4 units)

Inclusion & Children with Special Needs Certificate of Specialization (25 units)[4]

Core Courses and the following:

CHLD 50 School-Age Child (5–12): Behavior & Development (3 units)
CHLD 59 Working with School-Age Children: Principles & Practices (3 units)

Child Development Site Supervisor Certificate of Achievement (25 units)[5]

Core Courses and the following:

CHLD 11 Affirming Diversity in Education (4 units)
CHLD 53NP Atypical Development in Early Years (3 units)

School-Age Child Care Certificate of Specialization (25 units)[4]

Core Courses and the following:

CHLD 50A School-Age Child (5–12): Behavior & Development (3 units)
CHLD 59 Working with School-Age Children: Principles & Practices (3 units)

CHIN 6 Intermediate Chinese II (5 units)
CHIN 7 Intermediate Chinese II (5 units)
CHIN 10 Intermediate Chinese II (5 units)

Certificate of Specialization in Chinese Language (30 units)[6]

Recommended Courses

ENGL 23 or LING 23 Modern English: Function & Grammar (4 units)
ENGL 25 Descriptive & Historical Linguistics (4 units)
or ENGL 25H Honors Descriptive & Historical Linguistics (4 units)
or LING 25 Descriptive & Historical Linguistics (4 units)
or LING 25H Honors Descriptive & Historical Linguistics (4 units)
ENGL 26 or LING 26 Language, Mind & Society (4 units)

Certificate of Proficiency in Chinese Conversation (16 units)[11]

CHIN 1A Intermediate Conversation I (4 units)
CHIN 1B Intermediate Conversation II (4 units)
CHIN 1C Intermediate Conversation III (4 units)

Certificate of Proficiency in Chinese Language (15 units)[12]

CHIN 1 Intermediate Chinese (5 units)
CHIN 2 Elementary Chinese (5 units)
CHIN 3 Elementary Chinese (5 units)

Certificate of Specialization in Chinese Language (30 units)[13]

CHIN 1 Intermediate Chinese (5 units)
CHIN 2 Elementary Chinese (5 units)
CHIN 3 Elementary Chinese (5 units)
CHIN 4 Intermediate Chinese (5 units)
CHIN 5 Intermediate Chinese (5 units)
CHIN 6 Intermediate Chinese (5 units)

Recommended Courses

ENGL 23 or LING 23 Modern English: Function & Grammar (4 units)
ENGL 25 Descriptive & Historical Linguistics (4 units)
or ENGL 25H Honors Descriptive & Historical Linguistics (4 units)
or LING 25 Descriptive & Historical Linguistics (4 units)
or LING 25H Honors Descriptive & Historical Linguistics (4 units)
ENGL 26 or LING 26 Language, Mind & Society (4 units)

Certificate of Specialization in Chinese Language (30 units)[13]

CHIN 1 Intermediate Chinese (5 units)
CHIN 2 Elementary Chinese (5 units)
CHIN 3 Elementary Chinese (5 units)
CHIN 4 Intermediate Chinese (5 units)
CHIN 5 Intermediate Chinese (5 units)
CHIN 6 Intermediate Chinese (5 units)

Certificate of Specialization in Chinese Language (30 units)[13]

CHIN 1 Intermediate Chinese (5 units)
CHIN 2 Elementary Chinese (5 units)
CHIN 3 Elementary Chinese (5 units)
CHIN 4 Intermediate Chinese (5 units)
CHIN 5 Intermediate Chinese (5 units)
CHIN 6 Intermediate Chinese (5 units)

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

Foothill College 2008–2009 www.foothill.edu
A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

COMMUNICATION STUDIES

Program Type(s):
AA Degree, Certificate of Proficiency, Career Certificate, Certificate of Specialization

Units required for major: 27, certificate: 12–27

Associate Degree Requirements*

Core Courses: (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 30 Oral Interpretation of Literature (4.5 units)
COMM 46 Voice & Diction (4.5 units)
COMM 53, X, Y, Z Forensic Speech & Debate (1.5–4.5 units)
COMM 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)[14]
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 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 35Z or COMM 36Z may substitute for a communication elective course with the consent of your communication faculty advisor.

Rhetoric Concentration Core (27 units)[16]
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)
COMM 35Z or COMM 36Z may substitute for a communication elective course with the consent of your communication faculty advisor.

Career Certificate (27 units)
Same as A.A. degree, except general education courses are not required.

Certificate of Proficiency (12 units)
A minimum of any three communication courses.

Certificate of Specialization (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 (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.

73
Career Certificate (27 units)
Same as A.A. degree, except general education courses are not required.

**COMPUTER SCIENCE**

**Program Type(s):**
AS Degree
Units required for major: 54–55

**Associate Degree Requirements**
Core Courses: (35 units)
Select one language (C++ or JAVA)
CIS 15A Computer Science I: C++ (5 units)
CIS 15B Computer Science II: C++ (5 units)
CIS 15C Computer Science III: C++ (5 units)
or CIS 27A Computer Science I: JAVA (5 units)
CIS 27B Computer Science II: JAVA (5 units)
CIS 27C Computer Science III: Data Structures & Algorithms in JAVA (5 units)
and MATH 1A,B,C Calculus (5-5-5 units)
MATH 22 Discrete Mathematics (5 units)

**Elective Courses:** (19–20)
CIS 12A Fundamentals of Visual Basic.NET Programming (5 units)
CIS 19A Introduction to Programming with C# (5 units)
CIS 27P JAVA for Programmers (5 units)
CIS 52B Oracle SQL (5 units)

**Certificate Information**
All certificates require English proficiency: ENGL 1A, ESL 26 or equivalent, mathematics proficiency: MATH 103/105 or equivalent.

**Linux/UNIX System Operation & Administration Certificate of Achievement**
Core Courses (30 units):
CIS 27A Computer Science I: JAVA (5 units)
or CIS 15A Computer Science I: C++ (5 units)
CIS 68A Introduction to Linux & UNIX (5 units)
CIS 68B Linux & UNIX Shell Programming (5 units)
CIS 68C1 Linux & UNIX System Administration (5 units)
CIS 68C2 Linux & UNIX Networking Administration (5 units)
CNET 54A Network Fundamentals the TCP/IP Protocol Suite (5 units)

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

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

**Electives (15 units):**
CIS 12A Fundamentals of Visual Basic.NET Programming (5 units)
CIS 19A Introduction to Programming with C# (5 units)
CIS 68E Programming in PERL (5 units)
CNET 54A Network Fundamentals the TCP/IP Protocol Suite (CCNA I) (5 units)

**Object-Oriented Software Using JAVA Career Certificate**
Core Courses (25 units):
CIS 27A Computer Science I: JAVA (5 units)
CIS 27B Computer Science II: JAVA (5 units)
CIS 27C Computer Science III: Data Structures & Algorithms in JAVA (5 units)
CIS 52A Introduction to Data Management Systems (5 units)
CIS 78 Software Engineering (5 units)

**Electives (15 units):**
CIS 12A Fundamentals of Visual Basic.NET Programming (5 units)
CIS 19A Introduction to Programming with C# (5 units)
CIS 27D JAVA Advanced Features (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.

Foothill College 2008–2009  www.foothill.edu
CIS 68A Introduction to Linux & UNIX (5 units)
CIS 68B Linux & UNIX Shell Programming (5 units)
CIS 68E Programming in PERL (5 units)
CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (CCNA 1) (4 units)
Microsoft Certified Application Developer C# Skill Certificate (20 units)
CIS 19A Introduction to Programming with C# (5 units)
CIS 19D Developing Web-Based Applications with C# (5 units)
CIS 19W Developing Web Applications (5 units)
CIS 54C Microsoft SQL Server Database Design (5 units)
Linux/UNIX Skill Certificate (20 units)
CIS 68A Introduction to Linux & UNIX (5 units)
CNET 54A Network Fundamentals & the TCP/IP Protocol Suite (CCNA 1) (5 units)
CIS 68C1 Linux & UNIX System Administration (5 units)
CIS 68C2 Linux & UNIX Networking Administration (5 units)

**CREATIVE WRITING**

**Program Type(s):**
AA Degree, Certificate of Specialization
Units required for major: 34, certificate: 14–15

**Associate Degree Requirements**

**Core Courses: (34 units)**
ENGL 1B Composition, Critical Reading & Thinking (5 units)
or ENGL 1BH Honors Composition, Critical Reading & Thinking (5 units)
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 39A Introduction to Short Fiction Writing (5 units)
CRWR 41A Poetry Writing (5 units)

And one of these:
CRWR 39B Advanced Short Fiction Writing (5 units)
CRWR 41B Advanced Poetry Writing (5 units)

And one of these:
CRWR 40 Introduction to Writing the Novel (5 units)
CRWR 60 Memoir Writing (5 units)

And one of these:
ENGL 3 Technical Writing (5 units)
ENGL 4 Journalism (4 units)
ENGL 5 Gay & Lesbian Literature (4 units)
ENGL 7 Native American Literature (4 units)
or ENGL 7H Honors Native American Literature (4 units)
ENGL 8 Children’s Literature (4 units)
ENGL 11 Introduction to Poetry (4 units)
or ENGL 11H Honors Introduction to Poetry (4 units)
ENGL 12 Introduction to African American Literature (4 units)
ENGL 14 Introduction to Contemporary Fiction (4 units)
ENGL 17 Introduction to Shakespeare (4 units)
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
or ENGL 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)
or LING 25 Introduction to Descriptive & Historical Linguistics (4 units)
or LING 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)
ENGL 26 Language, Mind & Society (4 units)
or LING 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 Early American Literature 1492–1864 (4 units)
ENGL 48B American Literature in the Guilded Age: 1865–1914 (4 units)
ENGL 48C Modern American Literature 1914–Present (4 units)

Certificate Information
Certificate of Specialization in Creative Writing: Genres (15 units)[1]
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 39A Introduction to Short Fiction Writing (5 units)
CRWR 41A Poetry Writing (5 units)

Certificate of Specialization in Creative Writing: Fiction (15 units)[2]
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 39A Introduction to Short Fiction Writing (5 units)
CRWR 39B Advanced Short Fiction Writing (5 units)

Certificate of Specialization in Creative Writing: Poetry (15 units)[3]
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 41A Poetry Writing (5 units)
CRWR 41B Advanced Poetry Writing (5 units)

Certificate of Specialization in Creative Writing: Reading & Writing: Poetry (14 units)[4]
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 41A Poetry Writing (5 units)

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

Certificate of Specialization in Creative Writing: Genres (15 units)[1]
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 39A Introduction to Short Fiction Writing (5 units)
CRWR 41A Poetry Writing (5 units)

And one of these:
ENGL 11 Introduction to Poetry (4 units)
ENGL 11H Honors Introduction to Poetry (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 Early American Literature 1492–1864 (4 units)
ENGL 48B American Literature in the Guilded Age: 1865–1914 (4 units)
ENGL 48C Modern American Literature 1914–Present (4 units)

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

And one of these:
ENGL 1A or ESL 26, and MATH 103 or 105.

Foothill College 2008–2009  www.foothill.edu

---

[1] At least two of the three courses for each certificate must be completed at Foothill College.
[2] At least two of the three courses for each certificate must be completed at Foothill College.
[3] At least two of the three courses for each certificate must be completed at Foothill College.
[4] At least two of the three courses for each certificate must be completed at Foothill College.
[5] At least two of the three courses for each certificate must be completed at Foothill College.

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.
and one of these:
ENGL 14 Contemporary Fiction (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 Early American Literature 1492–1864 (4 units)
ENGL 48B American Literature in the Guilded Age: 1865–1914 (4 units)
ENGL 48C Modern American Literature 1914–Present (4 units)

**DATABASE MANAGEMENT**

**Program Type(s):**
**AS Degree, Certificate of Achievement, Skill Certificate**

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

**Associate Degree Requirements***

**Certificate Information**

All certificates require ENGL 110, or ESL 25 or equivalent: MATH 220 or equivalent.

**Oracle Database Administration Certificate of Achievement (40 units)**
CIS 52A Introduction to Data Management Systems (5 units)
CIS 52B Oracle SQL (5 units)
CIS 52C Database 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: Programming with PL/SQL (5 units)
CIS 68A Introduction to Linux & UNIX (5 units)
CNET 50 Introduction to Computer Networking (5 units)

**Oracle Database Developer Certificate of Achievement (40 units)**
CIS 52A Introduction to Data Management Systems (5 units)
CIS 52B Oracle SQL (5 units)
CIS 52J Oracle: Programming with PL/SQL (5 units)
CIS 52K Oracle Forms Developer: Build Internet Applications (5 units)
CIS 68A Introduction to Linux & UNIX (5 units)

**Select three:**
CIS 52C Data Modeling & Relational Database Design (5 units)
CIS 52M Oracle Reports (5 units)
CIS 62A Data Warehousing & Data Mining (5 units)
CIS 68E Programming in PERL (5 units)
CIS 27A Computer Science I: JAVA (5 units)[1]

**Oracle Database Administration Skill Certificate (15 units)**
CIS 52B Oracle: SQL (5 units)
CIS 52E Oracle Database Administration I (5 units)
CIS 52F Oracle Database Administration II (5 units)

**Oracle Database Developer Skill Certificate (15 units)**
CIS 52B Oracle: SQL (5 units)
CIS 52J Oracle: Programming with PL/SQL (5 units)
CIS 52K Oracle Forms Developer: Build Internet Applications (5 units)

**Open Source Databases Skill Certificate (15 units)**
CIS 52N PHP & MySQL (5 units)
CIS 52Q MySQL: In Depth (5 units)
CIS 52P PHP Programming (5 units)

**Microsoft Certified IT Professional (MCITP) Database Administration Skill Certificate (15 units)**
CIS 54C Microsoft SQL Server Database Design (5 units)
CIS 54D Microsoft SQL Server 2005 (5 units)
CIS 54E Microsoft SQL Server Database Administration (5 units)

**DENTAL ASSISTING**

**Program Type(s):**
**AS Degree, Certificate of Achievement**

**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 (2.5 units)
DA 51A Introduction to Chair-side Dental Assisting (5.5 units)
DA 62A Dental Sciences (2 units)
DA 55A Introduction to Radiography (3 units)
DA 58 Specialty Practice Procedures (1 unit)
DA 71 Infection Control & Hazardous Waste Management (1.5 units)

**Winter Quarter**
DA 51B Intermediate Clinical Dental Assisting (2 units)
DA 56 Dental Health Education (1 unit)
DA 60A Dental Office Business Practices (2 units)
DA 73 Dental Assisting Supervised Clinical (3 units)

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

**Certificate of Achievement in Dental Assisting:**
Core Courses (44.5 units)
Cardiopulmonary Resuscitation Certificate (Health Care Provider, American Heart Association)
Eligibility for ENGL 110 (or equivalent) or ESL 25 (or equivalent)
MATH 200 (or equivalent).

---

[1] CIS 27A can be taken in lieu of CIS 27A if the student has object-oriented programming knowledge.

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

Foothill College 2008–2009  www.foothill.edu
**DENTAL HYGIENE**

**Program Type(s):**
AS Degree

Units required for major: 123.5

**Associate Degree Requirements***

Core Courses: (123.5 units)

**First Year**

**Summer Quarter**
D H 50 Orientation to Dental Hygiene (1 unit)

**Fall Quarter**
D H 52A Oral Biology (3 units)
D H 53 Assessment Procedures in the Dental Hygiene Process (4 units)
D H 54 Preclinical Dental Hygiene (4 units)
D H 59 Survey of Dentistry (1 unit)
D H 60A Introduction to Dental Radiology (2 units)
BIOL 40A Human Anatomy & Physiology (5 units)
BIOL 46 Fundamentals of Pharmacology (4 units)
PSYC 1 General Psychology (5 units)

**Winter Quarter**
D H 52B Oral Biology (3 units)
D H 60B Dental Radiography (1 unit)
D H 61A Clinical Technique (5 units)
D H 71 Office Emergency Procedures (2 units)
D H 72 Dental Materials (3 units)
D H 73 Dental Health Education (2 units)
BIOL 40B Human Anatomy & Physiology (5 units)
BIOL 41 Microbiology (6 units)

**Spring Quarter**
D H 55A Fundamentals of Pathology (2 units)
D H 56 Applied Pharmacology in Dentistry (2 units)
D H 57A Periodontics (2 units)
D H 61B Introduction to Clinic (4 units)
D H 68A Radiographic Interpretation (2 units)
BIOL 40C Human Anatomy & Physiology (5 units)
BIOL 45 Introduction to Human Nutrition (4 units)

**Second Year**

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

**Winter Quarter**
D H 62A Clinical Dental Hygiene (3.5 units)
D H 65 Clinical Local Anesthesia (2.5 units)

**DIAGNOSTIC MEDICAL SONOGRAPHY**

**Program Type(s):**
AS Degree, Certificate of Achievement

Units required for major: 104, certificate: 104

**Associate Degree Requirements***

Core Courses: (104 units)

**Fall Quarter**
DMS 50A DMS Principles & Protocols (4 units)
DMS 50B Sonography & Patient Care (2 units)
DMS 60A Critique & Pathology (2 units)
DMS 72A DMS Procedures & Applications (8 units)
DMS 190Y Directed Study (1.5 unit)

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

**Spring Quarter**
DMS 52A Physical Principles of DMS (2 units)
DMS 53B Diagnostic Medical Sonography (2 units)
DMS 54B Gynecology & Obstetrics (2 units)
DMS 60C Critique & Pathology (1 unit)
DMS 70B Clinical Preceptorship (8 units) (32 hrs/wk)
DMS 190Y Directed Study (1.5 unit)

**Summer Quarter**
DMS 55B Obstetrics (2 units)
DMS 56A Vascular Sonography (2 units)
DMS 72E DMS Procedures & Applications (2 units)
DMS 60E Critique & Pathology (1 unit)
DMS 70D Clinical Preceptorship (8.5 units) (32 hrs/wk)

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

Foothill College 2008–2009  www.foothill.edu
DMS 190Y Directed Studies (1.5 unit)
Winter Quarter
DMS 52C Physical Principles of DMS (2 units)
DMS 56B Vascular Sonography (2 units)
DMS 80A Advanced Sonographic Principles (3 units)
DMS 60F Critique & Pathology (1 unit)
DMS 70E Clinical Preceptorship (8.5 units) (32 hrs/wk)
DMS 190Y Directed Studies (1.5 unit)
Certificate of Achievement (104 units)
Awarded after completion of DMS core courses, a GPA of 2.5 and grade of C or better in all core courses.

ECONOMICS

Program Type(s):
AA Degree
Units required for major: 30
Associate Degree Requirements*
Core Courses: (18 units)
ECON 1A Principles of Macroeconomics (5 units)
ECON 1B Principles of Microeconomics (5 units)
ECON 25 Introduction to the Global Economy (4 units)[1]
ECON 25 Introduction to the Global Economy (4 units)[2]
Support Courses: (8)
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)[3]
HIST 4A History of Western Civilization (4 units)
HIST 4B History of Western Civilization (4 units)
HIST 4C History of Western Civilization (4 units)
or HIST 4CH Honors History of Western Civilization (4 units)
HIST 9 History of Contemporary Europe (4 units)
or HIST 9H Honors History of Contemporary Europe (4 units)
HIST 17A History of the United States to 1816 (4 units)
HIST 18 Introduction to Middle Eastern Civilization (4 units)
HIST 19 History of Asia: China/Japan (4 units)
POLI 3 Introduction to Political Philosophy/Political Theory (5 units)
or POLI 3H Honors Introduction to Political Philosophy/Political Theory (5 units)
POLI 15 International Relations/World Politics (4 units)
or POLI 15H Honors International Relations/World Politics (4 units)

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

ENGINEERING

Program Type(s):
A5 Degree
Units required for major: 67
Associate Degree Requirements*
Core Courses: (48 units)
CHEM 1A General Chemistry (5 units)
CHEM 1B General Chemistry (5 units)
CIS 15A Computer Science I : C++ (5 units)
MATH 1B Calculus (5 units)
MATH 1C Calculus (5 units)
MATH 1D Calculus (5 units)
PHYS 4A General Physics: Calculus (6 units)
PHYS 4B General Physics: Calculus (6 units)
PHYS 4C General Physics: Calculus (6 units)
Support Courses: (10 units)
Recommended Courses
MATH 2A Differential Equations (5 units)
MATH 2B Linear Algebra (5 units)
Elective Courses: (9 units)
ENGR 6 Engineering Graphics (5 units)
ENGR 20 Introduction to Engineering (4 units)
ENGR 35 Statics (5 units)
ENGR 45 Properties of Materials (5 units)
ENGR 37 Introduction to Circuit Analysis (5 units)
PHYS 4D General Physics: Calculus (6 units)
NANO 51 Introduction to Nanotechnology (5 units)

ENGLISH

Program Type(s):
AA Degree, Certificate of Specialization
Units required for major: 33, certificate: 12
Associate Degree Requirements*
Core Courses: (33 units)
ENGL 1B Composition, Critical Reading & Thinking (5 units)
or ENGL 1BH Honors Composition, Critical Reading & Thinking (5 units)
and ENGL 46A Survey of English Literature (4 units)
or ENGL 46B Survey of English Literature (4 units)
or ENGL 46C Survey of English Literature (4 units)
or ENGL 46A Survey of American Literature (192–1864) (4 units)
or ENGL 48A Survey of American Literature in the Guilded Age: 1865–1914 (4 units)
or ENGL 48C Modern American Literature (1914–Present) (4 units)
and two of these:
ENGL 8 Children's Literature (4 units)
ENGL 11 Introduction to Poetry (4 units)
or ENGL 11H Honors Introduction to Poetry (4 units)
ENGL 14 Introduction to Contemporary Fiction (4 units)
ENGL 17 Introduction to Shakespeare (4 units)

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

Foothill College 2008–2009  www.foothill.edu
and one of these:
ENGL 23 Modern English: Function & Grammar (4 units)
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
  or ENGL 25H Honors 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)
  or ENGL 7H Honors Native American Literature (4 units)
ENGL 12 African American Literature (4 units)
ENGL 22 Women Writers (4 units)
ENGL 31 Chicano Literature (4 units)
ENGL 40 Asian American Literature (4 units)
ENGL 41 Multicultural Literature (4 units)

Support Courses: (19 units)
Optional
ENGL 1C Advanced Composition (4 units)
CRWR 6 Introduction to Creative Writing (5 units)
CRWR 39A Introduction to Short Fiction Writing (5 units)
CRWR 41A Introduction to Poetry Writing (5 units)

Certificate of Specialization in American Literature (12 units)
ENGL 7 Native American Literature (4 units)
  or ENGL 7H Honors 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 Multicultural Literature (4 units)

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

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

Certificate of Specialization in Multicultural Literature (12 units)
ENGL 5 Gay & Lesbian Literature (4 units)
ENGL 7 Native American Literature (4 units)
  or ENGL 7H Honors 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)

Certificate of Specialization in Written Communication (12 units)
ENGL 1A Composition & Reading (5 units)
  or ENGL 1AH Honors Composition & Reading (5 units)
ENGL 1B Composition, Critical Reading & Thinking (5 units)
  or ENGL 1BH Honors Composition, Critical Reading & Thinking (5 units)
ENGL 1C Advanced Composition (4 units)
  or ENGL 1CH Honors 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)

Certificate of Specialization in Linguistics (12 units)
ENGL 23 Modern English: Function & Grammar (4 units)
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
  or ENGL 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)
ENGL 26 Language, Mind & Society (4 units)

Enterprise Networking

Program Type(s):
AS Degree, Certificate of Achievement, Certificate of Proficiency

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

Associate Degree Requirements*

Core Courses: (45 units)
CIS 68A Introduction to Linux & UNIX (5 units)
CIS 68C2 Linux & UNIX Network Administration (5 units)
CNET 54A Networking Fundamentals: CCNA Exploration 1 (5 units)
CNET 75A Windows Vista Professional (5 units)
CNET 75B Windows Server 2008 Network Infrastructure (5 units)
CNET 51H Microsoft Windows XP Professional (4 units)
CNET 60A Microsoft Windows 2003 Server (4 units)
CNET 56A Introduction to Network Security (5 units)
CNET 56B Intrusion Detection, Awareness Analysis & Prevention (5 units)
CNET 65A Wireless Network Administration (5 units)
  or CNET 54N Fundamentals of Wireless LANs (5 units)
  and select one of the following emphasis (8-10 units)

MCITD Emphasis (10 units)
CNET 75A Windows Vista Professional (5 units)
CNET 60F Microsoft Windows 2007 Exchange Server (4 units)

CCNA Emphasis (10 units)
CNET 54C LAN Switching & Wireless Networks: CCNA Exploration 3 (5 units)
CNET 54D Accessing the WAN: CCNA Exploration 4 (5 units)

UNIX Emphasis (10 units)
CIS 68B1 Linux & UNIX Shell Programming (5 units)
CIS 68C2 Linux & UNIX Network Administration (5 units)

Wireless Emphasis (10 units)
CNET 65B Wireless Network Security (5 units)
CNET 65C Wireless Network Analysis (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.
Security Emphasis (10 units)
CNET 56F Linux & UNIX System Security (5 units)

Certificate Information:
All certificates require ENGL 110, ESL 25, or equivalent; MATH 220 or equivalent; CNET 50 or equivalent (prerequisite to all certificates)

MCITP Server Administrator Certificate of Achievement (25 units)
CNET 75A Windows Vista Professional (5 units)
CNET 75B Windows Server 2008 Network Infrastructure (5 units)
CNET 75C Windows Server 2008 Active Directory (5 units)
CNET 75E Windows Server 2008 Server Administrator (5 units)
CNET 60F Windows 2007 Exchange Server (5 units)

MCITP Enterprise Administrator Proficiency Certificate (25 units)
CNET 75A Windows Vista Professional (5 units)
CNET 75B Windows Server 2008 Network Infrastructure (5 units)
CNET 75C Windows Server 2008 Active Directory (5 units)
CNET 75D Windows Server 2008 Application Platform Services (5 units)
CNET 75F Windows Server 2008 Enterprise Administrator (5 units)

Network Security Proficiency Certificate (25 units)
CNET 54A CNET 54A Networking Fundamentals CCNA Exploration 1 (5 units)
CNET 56A Introduction to Network Security (5 units)
CNET 56B Intrusion Detection, Awareness, Analysis & Prevention (5 units)

and
CNET 56F Linux & UNIX System Security (5 units)
or
CNET 54L Network Security 1: Firewalls Access Controls & Identity Management (5 units)
CNET 54M Cisco Network Security 2: VPNs, Intrusion Detection & Intrusion Prevention Systems (5 units)

Cisco Academy CCNA Proficiency Certificate (20 units)
CNET 54A Networking Fundamentals CCNA Exploration 1 (5 units)
CNET 54B Routing Protocols & Concepts CCNA Exploration 2 (5 units)
CNET 54C LAN Switching & Wireless Networks CCNA Exploration 3 (5 units)
CNET 54D WAN Technologies CCNA Exploration 4 (5 units)

Cisco Academy CCNP Proficiency Certificate (20 units)
CNET 54G CCNP: Building Scalable Networks (5 units)
CNET 54H CCNP: Implementing Secure Converged Wide-Area Networks (5 units)
CNET 54I CCNP: Building Multi-layer Switched Networks (5 units)
CNET 54J CCNP: Optimizing Converged Networks (5 units)

Wireless Networking Proficiency Certificate (20 units)
CNET 54A Networking Fundamentals CCNA Exploration 1 (CCNA 1) (5 units)
CNET 56A Wireless Network Administration (5 units)
or CNET 54N Fundamentals of Wireless LANs (5 units)
CNET 65B Wireless Network Security (5 units)
CNET 65C Wireless Network Analysis (5 units)

MCDST Proficiency Certificate (15 units)
CNET 75A Windows Vista Professional (5 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 (4 units)

ENVIRONMENTAL HORTICULTURE & DESIGN

Program Type(s):
A5 Degree, Certificate of Achievement, Skill Certificate
Units required for major: 64, certificate: 45–65

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

Support Courses: (19 units)
Plant Material Specialization (2 units)
HORT 51C Plant Materials: Annuals (2 units)
HORT 51D Plant Materials: California Native Plants (2 units)
HORT 51E Plant Materials: Ground Covers & Vines (2 units)
HORT 51F Plant Materials: Grasses, Bamboos & Palms (2 units)
HORT 51G Plant Materials: Interior & Tropical Plants (2 units)
HORT 51H Plant Materials: Perennials & Annuals (2 units)
HORT 51J Plant Materials: Cacti & Succulents (2 units)

Career Focus Specialization (11–12 units)
HORT 52B Horticultural Practices: Plant Propagation (3 units)
HORT 52D Horticultural Practices: Biotechnology & Micropropagation (3 units)
HORT 52E Horticultural Practices: Greenhouse & Nursery Management (3 units)
HORT 52F Horticultural Practices: Interiorscaping (3 units)
HORT 52G Horticultural Practices: Turfgrass Management (3 units)
HORT 52H Horticultural Practices: Integrated Pest Management (3 units)
HORT 54D Landscape Construction: Applied Practices (2 units)
HORT 55A Green Industry Management: Business Practices (3 units)

[1] Must be repeated 2 times.

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

Foothill College 2008–2009 www.foothill.edu
HORT 55B Green Industry Management: Employee Practices (3 units)
HORT 60D Landscape Design: Planting (3 units)
HORT 60E Landscape Design: Computer Applications (3 units)
HORT 60F Landscape Design: Process (3 units)
Environmental Horticulture Skills (4 units)
HORT 80 Environmental Horticulture Skills (4 units)[2]

Short Course Specialization (2 units)
HORT 90A Container Plantings in the Landscape (1 unit)
HORT 90B Environmental Horticulture Careers (1 unit)
HORT 90C Garden Ponds & Water Features (1 unit)
HORT 90D Herbs: Identification, Use & Folklore (1 unit)
HORT 90E Horticultural & Landscape Photography (1 unit)
HORT 90F Landscape Design: Basic Principles (1 unit)
HORT 90G Landscape Design Forum (1 unit)
HORT 90H Landscape Lighting (1 unit)
HORT 90I Landscape Sustainability Practices (1 unit)
HORT 90J Landscape Tools & Equipment (1 unit)
HORT 90K Landscaping with Edibles (1 unit)
HORT 90L Plant Propagation: Basic Skills (1 unit)
HORT 90M Plant Nutrition & Fertilization (1 unit)
HORT 90N Plant Materials: 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 90V Water Features in European Gardens (1 unit)
HORT 90W Xeriscaping: Creating Water Conserving Landscapes (1 unit)

Certificate of Achievement (64 units)
Same as A.S. degree, except general education courses are not required.
HORT 80 Environmental Horticulture Skills (4 units)[3]

Skill Certificate (45 units)
Completion of the core courses with a letter grade of C or better.
HORT 80 Environmental Horticulture Skills (4 units)[4]

FREN

Program Type(s): AA Degree, Career Certificate, Certificate of Proficiency, Certificate of Specialization
Units required for major: 30, certificate: 12–30

Associate Degree Requirements*
Core Courses: (30 units)[5]
FREN 1 Elementary French (5 units)

Support Courses: (optional)
FREN 2 Elementary French (5 units)
FREN 3 Elementary French (5 units)
FREN 4 Intermediate French (5 units)
FREN 5 Intermediate French (5 units)
FREN 6 Intermediate French (5 units)

Certificate of Proficiency in French Conversation (12 units)[6]
FREN 13A Intermediate Conversation I (4 units)
FREN 13B Intermediate Conversation II (4 units)
FREN 14A Advanced Conversation I (4 units)
FREN 14B Advanced Conversation II (4 units)
FREN 25A Advanced Composition & Reading (4 units)
FREN 25B Advanced Composition & Reading (4 units)
FREN 39 French Literature in Translation (4 units)
ENGL 25 Introduction to Descriptive & Historical Linguistics (4 units)
or ENGL 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)
or LING 25 Introduction to Descriptive & Historical Linguistics (4 units)
or LING 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)

Certificate of Specialization in French Language (15 units)[7]
FREN 1 Elementary French (5 units)
FREN 2 Elementary French (5 units)
FREN 3 Elementary French (5 units)

Career Certificate in French Language (30 units)[8]
FREN 1 Elementary French (5 units)
FREN 2 Elementary French (5 units)
FREN 3 Elementary French (5 units)
FREN 4 Intermediate French (5 units)
FREN 5 Intermediate French (5 units)
FREN 6 Intermediate French (5 units)
FREN 13A Intermediate Conversation I (4 units)
FREN 13B Intermediate Conversation II (4 units)

GENERAL ELECTRICIAN

Program Type(s): AS Degree, Career Certificate
Units required for major: 45, certificate: 27–45

Associate Degree Requirements*
Core Courses: (45 units)
APEL 120 Orientation to the Electrical Trade (3 units)

[3] Must be taken 4 times for a total of 8 units.
[4] Must be repeated 2 times for a total of 4 units.
[5] FREN 1, 2 and 3 can be eliminated from the core courses for students who can demonstrate proficiency equivalent to 1 year of college French. 18 units must be completed in residence at Foothill College.

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

Foothill College 2008–2009 www.foothill.edu
APEL 121 Electron Theory; Basic Blueprint Reading; DC Theory; National Electrical Code Introduction (3 units)
APEL 122 Codeology; Test Equipment; Pipe Bending; Blueprints (3 units)
APEL 123 AC Theory; Transformers; Intermediate National Electrical Code (3 units)
APEL 124 DC/AC Theory Review; Electronics; Industrial Blueprints (3 units)
APEL 125 NEC Grounding; Overcurrent Protection; Transformer Connections (3 units)
APEL 126 Motors; Motor Control; Lighting Protection (3 units)
APEL 127 Digital Electronics; Motor Speed Control; Advanced National Electrical Code (3 units)
APEL 128 Programmable Logic Controllers; Low Voltage Systems & High Voltage Systems (3 units)
APEL 129 National Electrical Code Review (3 units)
Certificate Information[1]
Career Certificate: Inside Wireman (24 units)
APEL 120 Orientation for Electrical Trainee (3 units)
APEL 121 Electron Theory, Basic Blueprint Reading; DC Theory; National Electrical Code Introductions (3 units)
APEL 122 Codeology; Test Equipment; Pipe Bending; Introduction to Blueprints (3 units)
APEL 123 AC Theory; Transformers; Intermediate National Electrical Code (3 units)
APEL 124 DC/AC Theory Review; Electronics; Industrial Blueprints (3 units)
APEL 125 NEC Grounding; Overcurrent Protection; Transformer Connections (3 units)
APEL 126 Motors; Motor Control; Lighting Protection (3 units)
APEL 127 Digital Electronics; Motor Speed Control; Advanced National Electrical Code (3 units)
Career Certificate: Residential Electrician (27 units)
APEL 112 Residential Electrical Air Conditioning & Refrigeration; Telephone Systems (3 units)
APEL 135 Residential Electrical Orientation; Safety & Code Introduction (3 units)
APEL 136 Residential Electrical D/C Theory; Blueprint Reading (4.5 units)
APEL 137 Residential Electrical A/C Theory & Circuitry (4.5 units)
APEL 138 Residential Wiring Layout & Installation (4.5 units)

HUMN 1B Humanities & the Modern Experience (4 units)
Support Courses: (20 units)
To complete your 20 units, your courses must represent at least 4 categories from the list below. At least 15 units of support courses must be taken at Foothill College.
1. Art
2. Theatre Arts
3. Language (may include ENGL 1B, or ENGL 8)
4. Philosophy
   COMM or foreign language

GENERAL STUDIES/SCIENCE
Program Type(s):
AA Degree
Units required for major: 27
Associate Degree Requirements*
Core Courses: (27 units)[3]
To complete your 27 units, your courses must represent each category listed below. At least 13.5 units must be completed at Foothill College.
1. Biology
2. Chemistry
3. Physics
4. Mathematics (courses numbered 1 through 99 only)

GENERAL STUDIES/SOCIAL SCIENCE
Program Type(s):
AA Degree
Units required for major: 34
Associate Degree Requirements*
Core Courses: (34 units)[4]
Complete any combination of 34 units, from at least four departments.
1. Anthropology
2. Economics
3. Geography
4. History
5. Political Science
6. Psychology
7. Sociology
8. Women's Studies

GEOGRAPHY
Program Type(s):
AA Degree, Career Certificate, Certificate of Achievement
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)

[1] Certificates for State Licensure are awarded by the Department of Apprenticeship Standards (DAS) upon passing the State of California Electrician Exam.
[2] 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.
[3] 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.
[4] 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.

* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.
**Support Courses:** (8)
- 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 Introductory Geoscience (5 units)
  - or GEOL 11 Evolution of the Earth (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/World Politics (4 units)
  - or POLI 15H Honors International Relations/World Politics (4 units)

**Elective Courses:** (8 units)[5]
- 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 & the Soviet Union (4 units)
- POLI 2 Comparative Government & Politics (4 units)
  - or POLI 2H Honors Comparative Government & Politics (4 units)

**Certificate Information**
Request a certificate forms at http://bss.foothill.fhda.edu/certificates.

**Career Certificate 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 54 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)[6]

**Certificate of Achievement for Geographic Information Systems Analyst** (35 units)

**Required Courses** (24 units)
- GEOG 12 Introduction to Geographic Information Systems (4 units)
- GEOG 36V Special Projects in Geography (3 units)
- GEOG 52 Advanced Geographic Information Systems (4 units)
- GEOG 54 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 Oracle SQL (5 units)
  - and Focus Area Courses (6 units)[7]

[5] Students may also use courses listed under support courses for electives. May be taken only once for credit (either support or electives).
[7] Courses in an approved academic area of the student's selection.

* 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.
SPED 52 Intergenerational Adult Health & Development (3 units)
SPED 54 Principles of Therapeutic Exercise (3 units)
SPED 56 Functional Aspects of Adaptive Fitness (3 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 64 Disability & the Law (4 units)
SPED 66 Disability & Technology Access (4 units)

Certificate Information:
Awarded upon completion of the core and support courses.

German

Program Type(s):
Certificate of Specialization

Associate Degree Requirements*
Certificate of Specialization in German (15 units)
GERM 1 Elementary German (5 units)
GERM 2 Elementary German (5 units)
GERM 3 Elementary German (5 units)

Graphic & Interactive Design

Program Type(s):
AA Degree, Skill Certificate, Certificate of Achievement

Units required for major: 59, certificate: 12–59

Certificate Information:
Students are encouraged to take Skill Certificate courses after completing Graphic Design Studio II. See prerequisite information specific to each class.

Certificate of Achievement (59 units)
Same as A.A. degree, except general education courses are not required.

Graphic Design Skill Certificate (12 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)

Motion Graphics Skill Certificate (12 units)
GID 71 Storyboarding (4 units)
GID 80 Digital Sound, Video & Animation (4 units)
GID 84 Motion Graphics (4 units)
GID 87 Motion Graphics (4 units)

Video Design Skill Certificate (12 units)
GID 20 Video Production I (4 units)
GID 71 Storyboarding (4 units)
GID 80 Digital Sound, Video & Animation (4 units)
GID 84 Motion Graphics (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)
GID 72 Cartooning (4 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)
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.

**HISTORY**

**Program Type(s):**
- AA Degree

Units required for major: 36

**Associate Degree Requirements**

- **Core Courses:** (24 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)
  - or HIST 4CH Honors History of Western Civilization (4 units)
  - HIST 17A History of the United States to 1816 (4 units)
  - HIST 17B History of the United States from 1816 to 1914 (4 units)
  - HIST 17C History of the United States from 1914 to the Present (4 units)

- **Support Courses:** (12)
  - HIST 8 History of Latin America (4 units)
  - HIST 9 History of Contemporary Europe (4 units)
  - or HIST 9H Honors History of Contemporary Europe (4 units)
  - HIST 10 History of California: The Multicultural State (4 units)
  - HIST 15 History of Mexico (4 units)
  - HIST 16 Introduction to Ancient Rome (4 units)
  - or HIST 16H Honors Introduction to Ancient Rome (4 units)
  - HIST 18 Introduction to Middle Eastern Civilization (4 units)
  - HIST 19 History of Asia: China/Japan (4 units)
  - HIST 20 History of Russia & the Soviet Union (4 units)

**INTERACTIVE & MULTIMEDIA TECHNOLOGIES**

**Program Type(s):**
- AS Degree, Certificate of Achievement, Skill Certificate

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

**Associate Degree Requirements**

- **Core Courses:** (35 units)
  - COIN 51 Internet Technology & Applications (5 units)
  - GID 71 Storyboarding (4 units)
  - CAST 52A Introduction to Macromedia Flash (5 units)
  - CAST 52B Advanced Macromedia Flash (5 units)
  - GID 80 Digital Sound, Video & Animation (4 units)
  - or GID 74 Digital Art & Graphics (4 units)
  - GID 71 Storyboarding (4 units)
  - CAST 52A Introduction to Macromedia Flash (5 units)
  - CAST 52B Advanced Macromedia Flash (5 units)
  - GID 80 Digital Sound, Video & Animation (4 units)

- **Support Courses:** (3)
  - Program Capstone Project

**Certificate of Achievement in Informatics (66 units)**

Program Prerequisites: English proficiency: ENGL 1A, ESL 26, or equivalent; core classes (39 units); demonstration of subject matter preparation (15–20 units) or 300 hours applicable work experience; program capstone project or internship (3 units)

**Skill Certificate in Informatics (33 units)**

Program Prerequisites (9 units); English proficiency: ENGL 110, ESL 25, or equivalent; and the following classes (24 units)

1. 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 an informatics project. In both cases, the basic core of informatics understanding will be coupled with an application to the area of emphasis.
CAST 70D 3D Modeling & Animation for Multimedia (4 units)
CAST 70C Interactive Multimedia Project (4 units)

Support Courses: (5)
Programming Courses (5 units)
CIS 1 Introduction to Computer Science (5 units)
CIS 12A Introduction to Visual Basic.NET Programming (5 units)
CIS 12C Intermediate Visual Basic.NET Programming (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 (5 units)
or COIN 70B Using JavaScript (5 units)

Elective Courses: (10)
CIS 2 Computers & Society (5 units)
CAST 52B Advanced Macromedia Flash (5 units)
CAST 92A Introduction to Adobe Photoshop (4 units)
CAST 93A PowerPoint: Effective Presentations (4 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
GID 20 Digital Video Production I (4 units)
GID 50 Graphic Design Studio I (4 units)
GID 84 Motion Graphics (4 units)
GID 56 Web Site Design (4 units)
Certificate of Achievement (50 units)

Certificate of Achievement (50 units)
English proficiency: ENGL 1A, ESL 26, or equivalent; mathematics proficiency: MATH 103/105 or equivalent; core courses (35 units); programming courses (5 units); electives (10 units)

Skill Certificate (23 units)
GID 60 Careers in the Visual Arts (2 units)
GID 74 Digital Art & Graphics (4 units)
CAST 70B Multimedia Design & Authoring (4 units)
CAST 71 Storyboarding (4 units)
CAST 52A Introduction to Macromedia Flash (5 units)
GID 80 Digital Sound, Video & Animation (4 units)

Web-Based Multimedia Skill Certificate (25 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 76 Web Publishing Tools: Multimedia (5 units)
CAST 52A Introduction to Macromedia Flash (5 units)
CAST 52B Advanced Macromedia Flash (5 units)
COIN 84 Special Web Projects (5 units)

INTERNET TECHNOLOGY

Program Type(s):
AS Degree, Certificate of Achievement, Certificate of Proficiency, Skill Certificate

Units required for major: 35–45, certificate: 25–45

Associate Degree Requirements*
Certificate Information:
For all certificates: English proficiency: ENGL 110, ESL 25, or equivalent; mathematics proficiency: MATH 220 or equivalent; prerequisite: COIN 51 or equivalent; coursework as outlined below for the four major areas.

Electronic Business Skill Certificate (27 units)
COIN 56 E-Business (5 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 72 Web Marketing (4 units)
COIN 58 Electronic Commerce Projects (5 units)

And two from the following:
CIS 60 Introduction to Business Information Systems (5 units)
BUSI 95 Entrepreneurship: Small Business Management (4 units)
BUSI 22 Principles of Business (4 units)
BUSI 53 Survey of International Business (4 units)

Electronic Business Certificate of Achievement (41 units)
Requires all the coursework for the Electronic Business Skill Certificate (27 units),

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 Certificate of Achievement (40 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 63 Advanced Topics in Web Publishing (5 units)
COIN 70B Using JavaScript (5 units)
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 PHP & MySQL (5 units)
COIN 86 Server-Side Programming with Java Server Pages (5 units)

Web Administration Certificate of Achievement (40 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
CIS 52A Introduction to Data Management Systems (5 units)
CIS 68A Introduction to Linux & UNIX (5 units)
CIS 68C1 Linux & UNIX System Administration (5 units)
COIN 66 Apache Web Server Management (5 units)
CIS 68E Programming in PERL (5 units)
COIN 68 CGI Scripting Using PERL (5 units)

Web Development Certificate (25 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 63 Advanced Topics in Web Publishing (5 units)
COIN 65 Using Cascaded Style Sheets for Design (5 units)
COIN 84 Special Web Projects (5 units)

Web Development Skill Certificate (25 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 63 Advanced Topics in Web Publishing (5 units)
COIN 65 Using Cascaded Style Sheets for Design (5 units)
COIN 84 Special Web Projects (5 units)

Web Development Certificate of Proficiency (44 units)
COIN 61 Publishing on the Web Using HTML/XHTML (5 units)
COIN 63 Advanced Topics in Web Publishing (5 units)
COIN 65 Using Cascaded Style Sheets (CSS) for Design (5 units)
*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

**Japanese**

**Program Type(s):**

AA Degree, Certificate of Proficiency

Units required for major: 30, certificate: 20–52

**Associate Degree Requirements***

*Core Courses: (30 units)**

JAPN 1 Elementary Japanese (5 units)
JAPN 2 Elementary Japanese (5 units)
JAPN 3 Elementary Japanese (5 units)
JAPN 4 Intermediate Japanese (5 units)
JAPN 5 Intermediate Japanese (5 units)
JAPN 6 Intermediate Japanese (5 units)
JAPN 13A Intermediate Conversation I (4 units)

**Support Courses: (optional)**

JAPN 13B Intermediate Conversation II (4 units)
JAPN 14A Advanced Conversation I (4 units)
JAPN 14B Advanced Conversation II (4 units)
JAPN 25A Advanced Composition & Reading (4 units)
JAPN 25B Advanced Composition & Reading (4 units)

**Certificate of Proficiency in Japanese Conversation & Culture**

(20 units)

JAPN 13A Intermediate Conversation I (4 units)
JAPN 13B Intermediate Conversation II (4 units)
JAPN 14A Advanced Conversation I (4 units)
JAPN 14B Advanced Conversation II (4 units)
JAPN 33 Japanese Culture (4 units)

**Certificate of Proficiency in Japanese Language**

(30 units)

JAPN 1 Elementary Japanese (5 units)
JAPN 2 Elementary Japanese (5 units)
JAPN 3 Elementary Japanese (5 units)
JAPN 4 Intermediate Japanese (5 units)
JAPN 5 Intermediate Japanese (5 units)
JAPN 6 Intermediate Japanese (5 units)
JAPN 13A Intermediate Conversation I (4 units)
JAPN 13B Intermediate Conversation II (4 units)
JAPN 14A Advanced Conversation I (4 units)
JAPN 14B Advanced Conversation II (4 units)
JAPN 25A Advanced Composition & Reading (4 units)
JAPN 25B Advanced Composition & Reading (4 units)

**Certificate of Proficiency in Japanese Tutoring**

(52 units)

JAPN 1 Elementary Japanese (5 units)
JAPN 2 Elementary Japanese (5 units)
JAPN 3 Elementary Japanese (5 units)
JAPN 4 Intermediate Japanese (5 units)
JAPN 5 Intermediate Japanese (5 units)
JAPN 6 Intermediate Japanese (5 units)
JAPN 13A Intermediate Conversation I (4 units)
JAPN 13B Intermediate Conversation II (4 units)
JAPN 14A Advanced Conversation I (4 units)
JAPN 14B Advanced Conversation II (4 units)
JAPN 192 Service Learning in Japanese (1 unit) for six times (6 units)

---

[1] Students who can demonstrate proficiency equivalent to 1 year of college Japanese, JAPN 1, 2 and 3 can be eliminated from the core courses. 18 units must be completed at Foothill College.

[2] All the units must be completed at Foothill College.

[3] Students who can demonstrate proficiency equivalent to 1 year of college Japanese, JAPN 1, 2 and 3 can be eliminated from the core courses. 18 units must be completed at Foothill College.

[4] All the units must be completed at Foothill College. Two extra hours per week of teaching practicum is also required for six quarters.
**KOREAN**

**Program Type(s):**
Certificate of Proficiency

**Certificate of Proficiency (15 units)**
- KORE 1 Elementary Korean (5 units)
- KORE 2 Elementary Korean (5 units)
- KORE 3 Elementary Korean (5 units)

---

**LAW & SOCIETY (PRE-LAW)**

**Program Type(s):**
- AA Degree

Units required for major: 30

**Associate Degree Requirements***

**Core Courses:** (13 units)
- BUSI 18 Business Law I (4 units)
- PHIL 2 Introduction to Social & Political Philosophy (4 units)
- POLI 2 Comparative Government & Politics (4 units)
  or POLI 2H Honors Comparative Government & Politics (4 units)
- SOC 1 Introduction to Sociology (5 units)

**Support Courses:** (9 units)
- PHIL 8 Ethics (5 units)
- POLI 1 Political Science: introduction to American Government (5 units)
  or POLI 1H Honors Political Science: introduction to American Government (5 units)
- SOC 40 Aspects of Marriage & Family (4 units)
- BUSI 19 Business Law II (4 units)

**Elective Courses:** (4 units)[2]
- BUSI 53 Survey of International Business (4 units)
- ECON 1A Principles of Macroeconomics (5 units)
  or ECON 1B Principles of Microeconomics (5 units)
- ECON 25 Introduction to the Global Economy (4 units)
- HIST 4A History of Western Civilization (4 units)
  or HIST 4AH Honors History of Western Civilization (4 units)

---

**LEADERSHIP & COMMUNITY SERVICE**

**Program Type(s):**
Certificate of Specialization

**Core Courses:** (9 units)
- CNSL 85G Assertive Communication (1.5 units)
- CNSL 85GA Advanced Assertive Communication (1.5 units)
- CNSL 86 Leadership Theories, Styles & Realities (1 unit)
- CNSL 86LX Leadership Laboratory (1 unit)
- CNSL 86LY Leadership Laboratory (2 units)
- CNSL 86LZ Leadership Laboratory (3 units)
- CRLP 70 Self-Assessment (3 units)

**Elective Courses:** (22 units)
Refer to general education requirements for elective course selections.

---

**LINGUISTICS**

**Program Type(s):**
- AA Degree, Certificate of Specialization

Units required for major: 32, certificate: 12

**Associate Degree Requirements***

**Core Courses:** (32 units)
- ENGL 1B Composition, Critical Reading & Thinking (5 units)
  or ENGL 1BH Honors Composition, Critical Reading & Thinking (5 units)
- LING 23 Modern English: Function & Grammar (4 units)
  or ENGL 23 Modern English: Function & Grammar (4 units)
- LING 25 Introduction to Descriptive & Historical Linguistics (4 units)
  or LING 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)
- LING 26 Modern English: Function & Grammar (4 units)
  or ENGL 26 Modern English: Function & Grammar (4 units)
- LING 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)
- LING 26 Language, Mind & Society (4 units)
  or ENGL 26 Language, Mind & Society (4 units)

Any three 5-unit, degree-applicable, foreign language courses, including ESL 25 or 26.

**Recommended Courses**
- A second foreign language through course level 3.
- ANTH 2A Cultural Anthropology (4 units)
- ANTH 2B Patterns of Culture (4 units)
- COMM 2 Interpersonal Communication (5 units)
- COMM 12 Intercultural Communication (4 units)
- ENGL 46A Survey of English Literature (4 units)
- ENGL 46A Survey of English Literature (4 units)
- PSYC 4 Introduction to Psychobiology (4 units)
- PSYC 10 Introduction to Social Research (4 units)
  or SOC 10 Introduction to Social Research (4 units)
- PSYC 14 Childhood & Adolescence (4 units)
- SOC 30 Social Psychology (4 units)

**Certificate of Specialization (12 units)**
- LING 23 Modern English: Function & Grammar (4 units)
  or ENGL 23 Modern English: Function & Grammar (4 units)
- LING 25 Introduction to Descriptive & Historical Linguistics (4 units)
  or ENGL 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)
- LING 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)
  or ENGL 25H Honors Introduction to Descriptive & Historical Linguistics (4 units)
- LING 26 Language, Mind & Society (4 units)
  or ENGL 26 Language, Mind & Society (4 units)

---

**MATHEMATICS**

**Program Type(s):**
- AS Degree

Units required for major: 45

**Associate Degree Requirements***

**Core Courses:** (45 units)
- MATH 1A Calculus (5 units)
- MATH 1B Calculus (5 units)
- MATH 1C Calculus (5 units)

---

[1] 10 units must be completed in residence at Foothill College.

[2] Students may also use courses listed under support courses for electives.
A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

**MATH 1D Calculus** (5 units)
**MATH 22 Discrete Mathematics** (5 units)
**MATH 2A Differential Equations** (5 units)
**MATH 2B Linear Algebra** (5 units)

**And two courses selected from:**
**PHYS 2A General Physics** (5 units)
**PHYS 2B General Physics** (5 units)
**PHYS 2C General Physics** (5 units)

**Or two courses selected from:**
**PHYS 4A General Physics (Calculus)** (6 units)
**PHYS 4B General Physics (Calculus)** (6 units)
**PHYS 4C General Physics (Calculus)** (6 units)

**Or any two courses selected from:**
**CHEM 1A General Chemistry** (5 units)
**CHEM 1B General Chemistry** (5 units)
**CHEM 1C General Chemistry** (5 units)

**Or any two courses selected from:**
**CIS 15A Computer Science I: C++** (5 units)
**CIS 15B Computer Science II: C++** (5 units)
**CIS 15C Computer Science III: C++** (5 units)
**CIS 27A Computer Science I: JAVA** (5 units)
**CIS 27B Computer Science II: JAVA** (5 units)
**CIS 27C Computer Science III: JAVA** (5 units)

**Recommended Courses**
**MATH 10 Elementary Statistics** (5 units)
**MATH 11 Finite Mathematics** (5 units)

**MUSIC: GENERAL**

**Program Type(s):**
**AA Degree**

Units required for major: 39

**Associate Degree Requirements**

**Core Courses:** (27 units)
**MUS 2A Great Composers & Music Masterpieces of Western Civilization** (4 units)
**MUS 2B Great Composers & Music Masterpieces of Western Civilization** (4 units)

**Support Courses:** (8)
**MUS 1 Introduction to Music** (4 units)
**MUS 3A Beginning Music Theory, Literature & Composition** (5 units)
**MUS 3B Intermediate Music Theory, Literature & Composition** (5 units)
**MUS 3C Advanced Music Theory, Literature & Composition** (5 units)

**Recommended Courses**
**MATH 10 Elementary Statistics** (5 units)
**MATH 11 Finite Mathematics** (5 units)

**MUSIC TECHNOLOGY**

**Program Type(s):**
**AA Degree, Certificate of Achievement**

Units required for major: 48, certificate: 36

**Associate Degree Requirements**

**Core Courses:** (36 units)
**MUS 50A Music Business** (4 units)
**MUS 56 Composing & Arranging With Sibelius** (4 units)
**MUS 56A Jazz & Swing** (4 units)
**MUS 56B Funk, Fusion & Hip-Hop** (4 units)
**MUS 56C Salsa & Latin Jazz** (4 units)
**MUS 85A Music & Media: Edison to Hendrix** (4 units)
**MUS 85B Music & Media: Hendrix to Hip-Hop** (4 units)
**MUS 66B Introduction to Digital Audio: Pro Tools** (4 units)
**MUS 66A Introduction to Digital Audio: Reason & Pro Tools** (4 units)
**MUS 80A Recording Arts I: Recording Studio Basics** (4 units)
**MUS 80A Producing in the Home Studio I** (4 units)

*Foothill College 2008-2009 www.foothill.edu*
### MUSP 33 Evening Jazz Ensemble (2 units)

### MUSP 36 Jazz Laboratory Band (2 units)

### MUSP 34 Repertory Jazz Ensemble (2 units)

### MUSP 41C Applied Music & Multimedia Training (4 units)

### MUSP 41B Applied Music & Multimedia Training (4 units)

### MUSP 41A Applied Music & Multimedia Training (4 units)

### MUSP 64B Funk, Fusion & Hip-Hop (4 units)

### MUSP 64A Jazz & Swing (4 units)

### MUSP 64C Salsa & Latin Jazz (4 units)

### MUSP 50B Entertainment Law & New Media (4 units)

### MUSP 58A Songwriter's Workshop I (4 units)

### MUSP 58B Songwriter's Workshop II (4 units)

### MUSP 58C Songwriter’s Workshop III (4 units)

### MUSP 59 Applied Songwriting (4 units)

### MUSP 60A Producing in the Home Studio I (4 units)

### MUSP 60B Producing in the Home Studio II (4 units)

### MUSP 62 Sound Reinforcement (4 units)

### MUSP 64A Jazz & Swing (4 units)

### MUSP 64B Funk, Fusion & Hip-Hop (4 units)

### MUSP 64C Salsa & Latin Jazz (4 units)

### MUSP 81B Recording Arts II: Sound Design For Film (4 units)

### MUSP 81D Recording Arts II: Pro Tools & Plug Ins (4 units)

### MUSP 82A Recording Arts II: Sound Design for Film (4 units)

### MUSP 82B Recording Arts II: Pro Tools 110 Digidesign Certification (4 units)

### MUSP 85A Music & Media: Edison to Hendrix (4 units)

### MUSP 85B Music & Media: Hendrix to Hip-Hop (4 units)

### MUSP 85C Music & Media: Salsa & Latin Jazz (4 units)

### MUSP 85D Music & Media: Funk, Fusion & Hip-Hop (4 units)

### Support Courses: (12 units)

### Music

- MUS 41A Applied Music & Multimedia Training (4 units)
- MUS 41B Applied Music & Multimedia Training (4 units)
- MUS 41C Applied Music & Multimedia Training (4 units)
- MUS 33 Evening Jazz Ensemble (2 units)
- MUS 36 Jazz Laboratory Band (2 units)
- MUS 34 Repertory Jazz Ensemble (2 units)
- MUS 41C Applied Music & Multimedia Training (4 units)
- MUS 41B Applied Music & Multimedia Training (4 units)
- MUS 41A Applied Music & Multimedia Training (4 units)
- MUS 64B Funk, Fusion & Hip-Hop (4 units)
- MUS 64A Jazz & Swing (4 units)
- MUS 64C Salsa & Latin Jazz (4 units)
- MUS 50B Entertainment Law & New Media (4 units)
- MUS 58A Songwriter’s Workshop I (4 units)
- MUS 58B Songwriter’s Workshop II (4 units)
- MUS 58C Songwriter’s Workshop III (4 units)
- MUS 59 Applied Songwriting (4 units)
- MUS 60A Producing in the Home Studio I (4 units)
- MUS 60B Producing in the Home Studio II (4 units)
- MUS 62 Sound Reinforcement (4 units)
- MUS 64A Jazz & Swing (4 units)
- MUS 64B Funk, Fusion & Hip-Hop (4 units)
- MUS 64C Salsa & Latin Jazz (4 units)
- MUS 81B Recording Arts II: Sound Design For Film (4 units)
- MUS 81D Recording Arts II: Pro Tools & Plug Ins (4 units)
- MUS 82A Recording Arts II: Sound Design for Film (4 units)
- MUS 82B Recording Arts II: Pro Tools 110 Digidesign Certification (4 units)
- MUS 85A Music & Media: Edison to Hendrix (4 units)
- MUS 85B Music & Media: Hendrix to Hip-Hop (4 units)
- MUS 85C Music & Media: Salsa & Latin Jazz (4 units)
- MUS 85D Music & Media: Funk, Fusion & Hip-Hop (4 units)

### Radio Broadcasting

- RAD 80 Fundamentals of Radio Operation & Station Operation (3 units)
- RAD 81 History of Radio 1920–Present (4 units)
- RAD 90A News & Information Production (3 units)
- RAD 90B News & Information Production (3 units)
- RAD 90C News & Information Production (3 units)
- RAD 90D News & Information Production (3 units)
- RAD 92A Radio Programming & Production (3 units)
- RAD 92B Radio Programming & Production (3 units)
- RAD 92C Radio Programming & Production (3 units)
- RAD 92D Radio Programming & Production (3 units)

### Video Arts

- VART 1 Introduction to Film Studies (4 units)
- VART 3 American Cinema (4 units)
- VART 20 Digital Video Production I (4 units)
- VART 21 Digital Video Production II (4 units)

### Certificates of Achievement

- **Certificate of Achievement in Music Technology (36 units)**
  - MUS 50A Music Business (4 units)
  - MUS 56 Composing & Arranging with Sibelius (4 units)
  - MUS 64A Jazz & Swing (4 units)
  - MUS 64B Funk, Fusion & Hip-Hop (4 units)
  - MUS 64C Salsa & Latin Jazz (4 units)
  - MUS 85A Music & Media: Edison to Hendrix (4 units)
  - MUS 85B Music & Media: Hendrix to Hip Hop (4 units)
  - MUS 66A Introduction to Digital Audio: Pro Tools (4 units)
  - MUS 66B Introduction to Digital Audio: Reason & Pro Tools (4 units)
  - MUS 80A Recording Arts I: Recording Studio Basics (4 units)
  - MUS 60A Producing in the Home Studio I (4 units)
  - MUS 81A Recording Arts II: Audio Editing & Production (4 units)
  - MUS 60B Producing in the Home Studio II (4 units)
  - MUS 81B Recording Arts II: Sound Design for Film (4 units)

- **Certificate of Achievement in Pro Tools (36 units)**
  - MUS 66A Introduction to Digital Audio: Pro Tools (4 units)
  - MUS 66B Introduction to Digital Audio: Reason & Pro Tools (4 units)
  - MUS 80A Recording Arts I: Recording Studio Basics (4 units)
  - MUS 81A Recording Arts II: Audio Editing & Production (4 units)
  - MUS 81C Recording Arts II: Mixing & Mastering (4 units)
  - MUS 81B Recording Arts II: Sound Design for Film (4 units)
  - MUS 81D Recording Arts II: Pro Tools & Plug Ins (4 units)
  - MUS 82A Recording Arts III: Pro Tools 101 (4 units)
  - MUS 82B Recording Arts III: Pro Tools 110 Digidesign Certification (4 units)

### Nanoscience

#### Program Type(s):

- AS Degree, Certificate of Achievement, Certificate of Proficiency

#### Units required for major: 43–55, certificate: 15–40

#### Associate Degree Requirements*

- Core Courses: (43–55 units)
- Nanobiotechnology Core Courses: (43 units)
  - BTEC 51A Cell Biology for Biotechnology (3 units)
  - BTEC 51AL Cell Biology Laboratory for Biotechnology (3 units)
  - BTEC 52A Molecular Biology for Biotechnology (3 units)
  - BTEC 52AL Molecular Biology Laboratory for Biotechnology (3 units)
  - CHEM 30A Survey of Inorganic & Organic Chemistry (5 units)
  - CHEM 30B Survey of Organic & Biochemistry (5 units)
  - NANO 50 Introduction to Nanotechnology (5 units)
  - NANO 52 Introduction to Material Science (5 units)
  - NANO 59 Nanobiotechnology Sciences (5 units)
  - NANO 61 Introduction to Micro & Nano Fabrication Techniques (5 units)
- Nanoscience Transfer Core Courses: (50 units)
  - CHEM 1A General Chemistry (5 units)
  - CHEM 1B General Chemistry (5 units)

#### Electives: (15 units)

#### Notes:

1. All courses pertaining to this certificate must be taken for a letter grade. A cumulative GPA of 2.8 or higher is required.
2. All courses pertaining to this certificate must be taken for a letter grade. A cumulative GPA of 2.8 or higher is required.

---

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

Foothill College 2008–2009 www.foothill.edu
CHEM 1C General Chemistry & Qualitative Analysis (5 units)
NANO 51 Introduction to Nanotechnology (5 units)
MATH 1A Calculus (5 units)
MATH 1B Calculus (5 units)
MATH 1C Calculus (5 units)
PHYS 4A General Physics: Calculus (5 units)
PHYS 4B General Physics: Calculus (5 units)
PHYS 4C General Physics: Calculus (5 units)
Nanoscience Transfer Electives: (15 units)
BIOL 1A Principles of Cell Biology (6 units)
BIOL 1D Molecular Genetics (4 units)
BIOL 1DL Molecular Genetics Laboratory (4 units)
ENGL 3 Technical Writing (5 units)
ENGR 6 Engineering Graphics (6 units)
ENGR 35 Statics (5 units)
ENGR 45 Properties of Materials (4 units)
NANO 52 Introduction to Materials Science (5 units)
NANO 53 Materials Characterization (5 units)
NANO 54 Surfaces & Thin Films (5 units)
NANO 56 Principles of MEMS, NEMS & Sensors (5 units)
NANO 57 Introduction to Micro & Nano Fabrication Techniques (5 units)
NANO 58 Micro & Nano Fabrication Techniques Laboratory (5 units)
NANO 59 Nanobiotechnology Sciences (5 units)
NANO 60 Introduction to Clean Technology (5 units)
Nanoscience Core Courses: 55 Units
NANO 51 Introduction to Nanotechnology (5 units)
NANO 52 Introduction to Materials Science (5 units)
NANO 53 Materials Characterization (5 units)
NANO 54 Surfaces & Thin Films (5 units)
NANO 56 Principles of MEMS, NEMS & Sensors (5 units)
NANO 57 Introduction to Micro & Nano Fabrication Techniques (5 units)
NANO 58 Micro & Nano Fabrication Techniques Laboratory (5 units)
NANO 59 Nanobiotechnology Sciences (5 units)
NANO 60 Introduction to Clean Technology (5 units)
PHYS 2A (or equivalent) General Physics (5 units)
PHYS 2B (or equivalent) General Physics (5 units)
PHYS 2C (or equivalent) General Physics (5 units)
Certificate of Achievement: Nanoscience (40 units)
NANO 51 Introduction to Nanotechnology (5 units)
NANO 52 Introduction to Materials Science (5 units)
NANO 53 Materials Characterization (5 units)
NANO 54 Surfaces & Thin Films (5 units)
NANO 55 Nanobiotechnology Sciences (5 units)
NANO 56 Principles of MEMS, NEMS & Sensors (5 units)
NANO 57 Introduction to Micro & Nano Fabrication Techniques (5 units)
NANO 58 Micro & Nano Fabrication Techniques Laboratory (5 units)
NANO 61 Introduction to Micro & Nano Fabrication Techniques (5 units)
NANO 59 Nanobiotechnology Sciences (5 units)
NANO 60 Introduction to Clean Technology (5 units)
PHYS 2A (or equivalent) General Physics (5 units)
PHYS 2B (or equivalent) General Physics (5 units)
PHYS 2C (or equivalent) General Physics (5 units)
Certificate of Proficiency: Nanobiotechnology (39 units)
BTEC 51A Cell Biology for Biotechnology (3 units)
BTEC 51AL Cell Biology Laboratory for Biotechnology (3.5 units)
BTEC 52A Molecular Biology for Biotechnology (3 units)
BTEC 52AL Molecular Biology Laboratory for Biotechnology (3.5 units)
NANO 51 Introduction to Nanotechnology (5 units)
NANO 52 Introduction to Materials Science (5 units)
NANO 53 Materials Characterization (5 units)
NANO 54 Surfaces & Thin Films (5 units)
NANO 55 Nanobiotechnology Sciences (5 units)
NANO 60 Introduction to Clean Technology (5 units)
Certificate of Proficiency: Nanofabrication (15 units)
NANO 51 Introduction to Nanotechnology (5 units)
NANO 57 Introduction to Micro & Nano Fabrication Techniques (5 units)
NANO 58 Micro & Nano Fabrication Techniques Laboratory (5 units)
Certificate of Proficiency: Characterization & Modeling (15 units)
NANO 51 Introduction to Nanotechnology (5 units)
NANO 53 Materials Characterization (5 units)
NANO 54 Surfaces & Thin Films (5 units)

PARAMEDIC
Program Type(s):
A5 Degree, Certificate of Achievement
Units required for major: 100.5, certificate: 85.5

Associate Degree Requirements*
Certificate Information
All paramedic classes are held at the Foothill College Middlefield Campus, 4000 Middlefield Road, Palo Alto, CA 94303.

Certificate of Achievement Requirements (85.5 units)
EMTP 60A Mobile Intensive Care Paramedic Program: Cognitive & Affective IA (11 units)
EMTP 60B Mobile Intensive Care Paramedic Program: Cognitive, Psychomotor & Office IB (8.5 units)
EMTP 61A Mobile Intensive Care Paramedic Program: Cognitive & Affective IIA (11 units)
EMTP 61B Mobile Intensive Care Paramedic Program: Cognitive, Psychomotor & Office IIB (8.5 units)
EMTP 62A Mobile Intensive Care Paramedic Program: Cognitive & Affective IIIA (11 units)
EMTP 62B Mobile Intensive Care Paramedic Program: Cognitive, Psychomotor & Office IIIB (8.5 units)
EMTP 63A Mobile Intensive Care Paramedic Program Hospital Specialty Rotations (3 units)
EMTP 63B Mobile Intensive Care Paramedic Program Hospital Emergency Department Rotations (5 units)
EMTP 64A Mobile Intensive Care Paramedic Program: Ambulance Field Internship (9.5 units)
EMTP 64B Mobile Intensive Care Paramedic Program: Ambulance Field Internship (9.5 units)

PERSONAL TRAINER
Program Type(s):
Certificate of Achievement

Core Courses: (27 units)
P T 51 Basic Nutrition for Sports & Fitness (3 units)
P T 52 Strength Fitness (3 units)
P T 53 Personal Fitness Trainer Internship (3 units)
P T 54 Techniques of Fitness Assessment (3 units)
P T 55 Theory & Concepts of Exercise Physiology (4 units)

* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.
PHARMACY TECHNICIAN
Program Type(s):
AS Degree, Certificate of Achievement
Units required for major: 52, certificate: 52

Associate Degree Requirements*
Core Courses: (52 units)
Fall Quarter
PHT 50 Orientation to Pharmacy Technician (3 units)
PHT 51 Basic Pharmaceutics (4 units)
PHT 52A Inpatient Dispensing (3 units)
PHT 53 Ambulatory Pharmacy Practice (4 units)
PHT 54A Dosage Calculations A (3 units)
PHT 56A Retail Clinical (1.5 units)
or PHT 62A Hospital Clinical (1.5 units)

Winter Quarter
PHT 52B Aseptic Technique & IV Preparation (4 units)
PHT 54B Dosage Calculations B (3 units)
PHT 55A Pharmacology A (6 units)
PHT 56A Dispensing & Compounding A (4 units)

And
PHT 60A Retail Clinical (1.5 units)
or PHT 60B Retail Clinical (1.5 units)
or PHT 62A Hospital Clinical (1.5 units)
or PHT 62B Hospital Clinical (1.5 units)

Spring Quarter
PHT 55B Pharmacology B (6 units)
PHT 56B Dispensing & Compounding B (3 units)
PHT 61 Home Healthcare Supplies (3 units)
PHT 60A Retail Clinical (1.5 units)
or PHT 60B Retail Clinical (1.5 units)
or PHT 62A Hospital Clinical (1.5 units)
or PHT 62B Hospital Clinical (1.5 units)

PHILOLOGY
Program Type(s):
AA Degree
Units required for major: 33

Associate Degree Requirements*
Core Courses: (17 units)
PHIL 2 Introduction to Social & Political Philosophy (4 units)
PHIL 4 Introduction to Philosophy (4 units)
PHIL 8 Ethics (5 units)

and 4 units from the following courses:
PHIL 1 Critical Thinking (5 units)
PHIL 7 Introduction to Symbolic Logic (4 units)

PHOTOGRAHY & DIGITAL IMAGING
Program Type(s):
AA Degree, Certificate of Achievement, Skill Certificate
Units required for major: 41, certificate: 12–41

Associate Degree Requirements*
Core Courses: (24 units)
PHOT 1 Black & White Photography I (4 units)
or PHOT 5 Introduction to Photography (4 units)
PHOT 10 History of Photography (4 units)
PHOT 65A Digital Imaging I (4 units)
PHOT 50 Black & White Photography III (4 units)
PHOT 34H Honors Program Seminar in Photography (1 unit)
PHOT 13 Experimental Photography (4 units)
PHOT 11 Contemporary Issues in Photography (4 units)
PHOT 57B Professional Practices in Photography (4 units)
PHOT 57A Photographic Portfolio Development (4 units)
PHOT 53 Introduction to Color Photography (4 units)
PHOT 55 Special Projects in Photography (4 units)
PHOT 53 Introduction to Color Slides (4 units)
PHOT 52 Black & White Photography II (4 units)
PHOT 51 Zone System Photography (4 units)
PHOT 50 Black & White Photography III (4 units)
PHOT 70 Introduction to Color Photography (4 units)
PHOT 71 The Photographic Book (4 units)

and 5 units of elective courses listed below.

Option #2: Digital Imaging (12 units)
PHOT 65B Digital Imaging II (4 units)
PHOT 65C Digital Imaging III (4 units)
PHOT 71 The Photographic Book (4 units)

and 5 units of elective courses listed below.

Elective Courses: (5 units)
ART 6 Collage & Composition (3 units)
ART 20A Color (3 units)
PHOT 1 Black & White Photography I (4 units)
PHOT 1LX General Photography Production Laboratory (1 unit)[2]
PHOT 2 Black & White Photography II (4 units)
PHOT 2LX General Photography Production Laboratory II (1 unit)
PHOT 5 Introduction to Photography (4 units)
PHOT 8 Photography of a Multicultural America (4 units)
or PHOT 8H Honors Photography of a Multicultural America (4 units)
PHOT 10 History of Photography (4 units)
or PHOT 10H Honors History of Photography (4 units)
PHOT 11 Contemporary Issues in Photography (4 units)
PHOT 13 Experimental Photography (4 units)
PHOT 34H Honors Program Seminar in Photography (1 unit)
PHOT 50 Black & White Photography III (4 units)
PHOT 51 Zone System Photography (4 units)
PHOT 53 Introduction to Color Slides (4 units)
PHOT 55 Special Projects in Photography (2 units)
PHOT 57A Photographic Portfolio Development (4 units)
PHOT 57B Professional Practices in Photography (4 units)
PHOT 60 Photography & the New Technologies (4 units)
PHOT 63 Photojournalism (4 units)
PHOT 65A Digital Photography I (4 units)
PHOT 65B Digital Photography II (4 units)
PHOT 65C Advanced Digital Imaging (4 units)
PHOT 70 Introduction to Color Photography (4 units)
or PHOT 53 Introduction to Color Slides (4 units)
ART 5A Basic Two-Dimensional Design (3 units)
ART 5A Basic Two-Dimensional Design (3 units)[6]

Plus 3 units from elective list.

Certificate of Achievement II: 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)
or PHOT 10H Honors 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 70 Introduction to Color Photography (4 units)
or PHOT 53 Introduction to Color Slides (4 units)
ART 5A Basic Two-Dimensional Design (3 units)[7]

Skill Certificate: Photographic Laboratory Technician (12.5 units)[8]
PHOT 1 Beginning Photography (4 units)
PHOT 2 Intermediate Photography (4 units)
PHOT 70 Introduction to Color Photography (4 units)
or PHOT 53 Introduction to Color Slides (4 units)
PHOT 1LX General Photography Production Laboratory (1 unit)
or PHOT 150 Photography Production Laboratory (.5 unit)
and/or PHOT 180 Photographic Practices or Equivalent (.5 unit)

Skill Certificate: Photo Criticism (12 units)
PHOT 5 Introduction to Photography (4 units)
PHOT 10 History of Photography (4 units)
or PHOT 10H Honors History of Photography (4 units)

And
PHOT 8 Photography of a Multicultural America (4 units)
or PHOT 8H Honors Photography of a Multicultural America (4 units)
or PHOT 11 Contemporary Issues in Photography (4 units)

[1] Concurrent with ART SAX Design Critique Seminar (1 unit)
[2] Maximum of 3 units of laboratory may be used toward a degree or certificate.
[3] Maximum of 3 units of laboratory may be used toward a degree or certificate.
[4] Maximum of 3 units of laboratory may be used toward a degree or certificate.
[5] Maximum of 3 units of laboratory may be used toward a degree or certificate.
[6] Concurrent with ART SAX Design Critique Seminar (1 unit)
[7] Concurrent with ART SAX Design Critique Seminar (1 unit)
[8] Plus 50 hours of work experience verified by employer or volunteer supervisor.

*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.
**PHYSICAL EDUCATION**

**Program Type(s):**
- AA Degree

Units required for major: 34

**Associate Degree Requirements**

Core Courses: (34 units)
- PHED 1 Introduction to Physical Education as a Profession (4 units)
- PHED 3 Theories & Techniques of Coaching Sports (4 units) or DANC 10 Topics in Dance History (4 units)
- PHED 67B Emergency Athletic Injury Care (3 units)
- BIOL 10 General Biology (5 units) or BIOL 14 Human Biology (5 units)
- PHED 2 Sport in Society (4 units)
- PHED 4 Concepts of Physical Fitness & Wellness (4 units)
- PSYC 55 Psychology of Sports (4 units)

And
- 6 units of any Physical Education (PHED) activity courses

Elective Courses: (Optional)
- PHED 67A Prevention of Athletic Injuries (3 units)
- PHED 67C Treatment & Rehabilitation of Athletic Injuries (3 units)
- BIOL 40A Human Anatomy & Physiology (5 units)
- BIOL 40B Human Anatomy & Physiology (5 units)
- BIOL 40C Human Anatomy & Physiology (5 units)
- CHEM 25 Fundamentals of Chemistry (5 units)
  or CHEM 30A Survey of Inorganic & Organic Chemistry (5 units)
- PHED 12B Lifeguard Training (4 units)
- PHED 7 Athletic Officiating (3 units)
- PSYC 1 General Psychology (5 units)
- DANC 10 Topics in Dance History (3 units)

**PHYSICS**

**Program Type(s):**
- AS Degree

Units required for major: 59

**Associate Degree Requirements**

Core Courses: (59 units)
- CHEM 1A General Chemistry (5 units)
- CHEM 1B General Chemistry (5 units)
- MATH 1B Calculus (5 units)
- MATH 1C Calculus (5 units)
- MATH 1D Calculus (5 units)
- MATH 2A Differential Equations (5 units)
- MATH 2B Linear Algebra (5 units)
- PHYS 4A General Physics: Calculus (6 units)
- PHYS 4B General Physics: Calculus (6 units)
- PHYS 4C General Physics: Calculus (6 units)
- PHYS 4D General Physics: Calculus (6 units)

**POLITICAL SCIENCE**

**Program Type(s):**
- AA Degree

Units required for major: 35

**Associate Degree Requirements**

Core Courses: (18 units)
- POLI 1 Political Science: Introduction to American Government & Politics (5 units)
- POLI 2 Comparative Government & Politics (4 units)
  or POLI 2H Honors Comparative Government & Politics (4 units)
- POLI 3 Introduction to Political Philosophy/Political Theory (5 units)
  or POLI 3H Honors Introduction to Political Philosophy/Political Theory (5 units)
- POLI 15 International Relations/World Politics (4 units)
  or POLI 15H Honors International Relations/World Politics (4 units)

Support Courses: (9 units)
- ECON 1A Principles of Macroeconomics (5 units)
- HIST 9 History of Contemporary Europe (4 units)
  or HIST 9H Honors History of Contemporary Europe (4 units)
- HIST 17A History of the United States to 1816 (4 units)
  or HIST 17B History of the United States from 1816–1914 (4 units)
  or HIST 17C History of the United States 1914–Present (4 units)
- POLI 5 Russian & East European Politics (4 units)
- POLI 7 American Government & Politics from a Black Perspective (5 units)
- POLI 8 Post World War II Germany (4 units)
- POLI 9 Political Economy (4 units)
  or POLI 9H Honors Political Economy (4 units)

Elective Courses: (8 units)
- ECON 25 Introduction to the Global Economy (4 units)
- HIST 8 History of Latin America (4 units)
- HIST 18 Introduction to Middle Eastern Civilization (4 units)
- HIST 19 History of Asia: China/Japan (4 units)
- HIST 20 History of Russia & The Soviet Union (4 units)
- PHIL 2 Social & Political Philosophy (4 units)
- SOC 15 Law & Society (4 units)

**PRIMARY CARE ASSOCIATE PROGRAM**

**Program Type(s):**
- AS Degree, Certificate of Achievement

Units required for major: 86, certificate: 86

**Associate Degree Requirements**

Core Courses: (86 units)

Curriculum

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

**Fall Quarter**
- PC 80 Family Medicine Didactic (14 units)
- PC 190Z Directed Studies in Primary Care Medicine (2 units)

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

Foothill College 2008–2009 www.fothill.edu
PC 80P Family Medicine Clinical (5 units)
**Winter Quarter**[2]
PC 81 Family Medicine Didactic (8 units)
PC 81P Family Medicine Clinical (8 units)
**Spring Quarter**[3]
PC 82 Family Medicine Didactic (8 units)
PC 82P Family Medicine Clinical (9 units)
**Summer Quarter**[4]
PC 83 Family Medicine Didactic (6 units)
PC 83P Family Medicine Clinical (9 units)
**Fall Quarter (5th Quarter)**[5]
PC 84 Family Medicine Didactic (8 units)
PC 84P Family Medicine Clinical (9 units)

**Support Courses:**[6]
PC 85 Special Clinical Projects (4 units)
PC 85X Special Clinical Projects (5 units)
PC 85Y Special Clinical Projects (6 units)
PC 86 Special Didactic Projects (4 units)
PC 86X Special Didactic Projects (5 units)
PC 86Y Special Didactic Projects (6 units)

---

**PSYCHOLOGY**

**Program Type(s):**
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)[7]
ANTH 2A Cultural Anthropology (4 units)
BIOL 10 General Biology; Basic Principles (5 units)
or BIOL 14 Human Biology (5 units)

---

**RADIATION THERAPY**

Program Type(s):
A5 Degree
Units required for major: 105.5

Associate Degree Requirements*
Core Courses: (105.5 units)
First Year (57 units)

**Summer Quarter**
RTT 57 Orientation to Radiation Therapy Technology (2.5 units)

**Fall Quarter**
RTT 58A Fundamentals of Radiologic Technology for Radiation Therapists (3 units)
RTT 59A Technical Radiation Oncology (3 units)
RTT 71A Clinical Practicum (24 clinical hours per week) (4.5 units)
BIOL 40A Human Anatomy & Physiology (4 units)
PSYC 1 General Psychology (may be taken in any quarter) (5 units)

**Winter Quarter**
RTT 58B Fundamentals of Radiologic Technology for Radiation Therapists (3 units)
RTT 59B Radiation Oncology & Pathology (3 units)
RTT 71B Clinical Practicum (24 clinical hours per week) (4.5 units)
BIOL 40B Human Anatomy & Physiology (4 units)

**Spring Quarter**
RTT 61A Radiation Therapy Physics I (3 units)
RTT 72A Dosimetry I (3 units)
RTT 71C Clinical Practicum (24 clinical hours per week) (4.5 units)
BIOL 40C Human 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) (4 units)

**Second Year (48.5 units)**

**Fall Quarter**
RTT 64A Clinical Radiation Oncology I (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 II (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 III (4 units)
RTT 62B Radiation Biology (3 units)
RTT 73C Clinical Practicum (32 clinical hours per week) (7 units)

---

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

Foothill College 2008–2009  www.foothill.edu
Summer Session (6 weeks)
RTT 73D Clinical Practicum (32 clinical hours per week) (3.5 units)
RTT 63C Radiation Oncology III (3 units)

RADIO BROADCASTING

Program Type(s): AA Degree, Certificate of Achievement, Skill Certificate

Units required for major: 37, certificate: 27–37

Associate Degree Requirements*

Core Courses: (22 units)
RAD 80 Fundamentals of Radio Production & Station Operations (3 units)
RAD 81 History of Radio 1920–Present (4 units)
RAD 90A News & Information Production (3 units)
RAD 90B, C, D News & Information Production (3 units each)
RAD 91A, B, C, D Radio Station Sales & Marketing (3 units each)
RAD 92A, B, C, D Radio Programming & Production (3 units each)
RAD 93A, B, C, D Music Industry Relations & Engineering (3 units each)

Support Courses: (15 units)[1]
Broadcast Performance Emphasis
MUS 1 Introduction to Music (4 units)
MUS 7 Contemporary Musical Styles: Rock, Pop & Jazz (4 units)
MUS 7D Contemporary Musical Styles: The Beatles in the Culture of Popular Music (4 units)
MUS 7E History of the Blues (4 units)
MUS 8 Music of Multicultural America (4 units)
or MUS 8H Honors Music of Multicultural America (4 units)
MUS 80A Recording Arts I: Recording Studio Basics (4 units)
COMM 1A Public Speaking (4.5 units)
COMM 24 Readers’ Theatre (4.5 units)
COMM 30 Oral Interpretation of Literature (4.5 units)
COMM 46 Voice & Diction (4 units)

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

Broadcast Business Sales Emphasis
ACTG 1A Financial Accounting I (5 units)
ADVT 57 Principals of Advertising (4 units)
or BUSI 57 Principals of Advertising (4 units)
BUSI 59 Principles of Marketing (4 units)
BUSI 97 Management Seminar (.5–3 units)
CIS (one 4-unit CIS course) (4 units)

Broadcast Business Management Emphasis
ACTG 1A Financial Accounting I (5 units)
ADVT 57 Principals of Advertising (4 units)
or BUSI 57 Principals of Advertising (4 units)

Skill Certificate (27 units minimum)
Earned with completion of RAD 80, 90A, three classes of radio courses from one area of emphasis, and 12 units from courses listed in one area of emphasis.

RADIOLOGIC TECHNOLOGY

Program Type(s): AS Degree

Units required for major: 100

Associate Degree Requirements*

Core Courses: (100 units)[2]

First Year
Summer Session
RT 50 Orientation to Radiation Science Technologies (2 units)
RT 53 Orientation to Radiologic Technology (1 unit)

Fall Quarter
RT 54 Basic Patient Care for Imaging Technology (2 units)
RT 51A Fundamentals of Radiologic Technology (3 units)
RT 52A Principles of Radiologic Technology (3 units)
RT 53A Applied Radiographic Technology (3 units)
RT 54C Principles of Radiologic Technology (3 units)
RT 53BL Applied Radiologic Technology Laboratory (1 unit)

Winter Quarter
RT 54C Principles of Radiologic Technology (3 units)
RT 51C Fundamentals of Radiologic Technology (3 units)
RT 52C Principles of Radiologic Technology (3 units)
RT 53C Applied Radiologic Technology (3 units)
RT 53CL Applied Radiologic Technology Laboratory (1 unit)
RT 54C Principles of Radiologic Technology (3 units)
PSYC 1 General Psychology (5 units)

Summer Session (8 weeks)
RT 72 Venipuncture (2 units)
RT 64 Fluoroscopy (4.5 units)
RT 53D Radiographic Clinical Practicum (8 Units)

Second Year
Fall Quarter
RT 62A Radiographic Positioning (3 units)

[1] 15 units one emphasis

[2] All courses must be completed in sequence with a grade of C or better.
R T 63A Radiographic Clinical Practicum (7.5 units)
R T 52D Principles of Radiologic Technology (2 units)

Winter Quarter
R T 61B Radiology Research Project (1 unit)
R T 62B Special Procedures & Equipment (3 units)
R T 63B Radiographic Clinical Practicum (7.5 units)
R T 65 Mammography (3 units)

Spring Quarter
R T 62C Advanced Radiographic Positioning (3 units)
R T 63 Advanced Radiographic Principles (3 units)
R T 63C Radiographic Clinical Practicum (7.5 units)

Certificate Information:
Advanced certificates are available as follows:
Fluoroscopy (4.5 units)
R T 64 Fluoroscopy (4.5 units)
Mammography (3 units)
R T 65 Mammography (3 units)

REAL ESTATE
Program Type(s):
AA Degree, Certificate of Achievement, Career Certificate
Units required for major: 33, certificate: 12–33

Associate Degree Requirements*
Core Courses: (32 units)
BUSI 18 Business Law I (5 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 Survey of Real Estate Property Management (4 units)

Real Estate Broker Certificate of Achievement (33 units)[3]
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 Survey of Real Estate Property Management (4 units)

Real Estate Salesperson Career Certificate (12 units)[4]
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)

[3] Awarded after completion of the core courses. This certificate meets the California Department of Real Estate course requirements for a broker license.
[4] This certificate meets the California Department of Real Estate course requirements for a salesperson license.

RESPIRATORY THERAPY
Program Type(s):
AS Degree
Units required for major: 104

Associate Degree Requirements*
Core Courses: (104 units)
First Year
Fall Quarter
RSPT 50A Respiratory Therapy Procedures (4.5 units)
RSPT 51A Introduction to Respiratory Anatomy & Physiology (2 units)
RSPT 52 Applied Science for Respiratory Therapy (3 units)
RSPT 54 Orientation to Respiratory Care (1.5 units)
RSPT 55A Directed Studies in Respiratory Therapy (.5 unit)

Spring Quarter
RSPT 50B Introduction to Procedures & Hospital Orientation (6 units)
RSPT 53A Introduction to Respiratory Pharmacology (2 units)
RSPT 55B Directed Studies in Respiratory Therapy (.5 unit)
BIOL 40B Human Anatomy & Physiology (5 units)
BIOL 41 Microbiology (6 units)

Summer Session (6 weeks)
RSPT 61A Adult Mechanical Ventilation (4 units)
RSPT 55D Directed Studies in Respiratory Therapy (.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 in Respiratory Therapy (.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 Patient Simulations (.5 unit)
RSPT 55F Directed Studies in Respiratory Therapy (.5 unit)
RSPT 70C Clinical Rotation (6 units)
RSPT 61C Home & Rehabilitative Respiratory Care (2 units)

* A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.
Spring Quarter
RSPT 60C Pulmonary Diagnostics (3 units)
RSPT 62 Management, Resume & National Board Examination (1 unit)
RSPT 55G Directed Studies in Respiratory Therapy (.5 unit)
RSPT 70D Clinical Rotation (6 units)
Support Courses: (Optional)
RSPT 71, 72, 73A–G Extended Clinical Internships (offered each quarter)
RSPT 190, 190X, 190Y, 190Z Directed Studies (.5–2 units)

SOCIETY
Program Type(s):
AA Degree, Certificate of Achievement, Certificate of Specialization
Units required for major: 30, certificate: 13–26
Associate Degree Requirements*
Core Courses: (12 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: (13 units)
ANTH 2A Cultural Anthropology (4 units)
ECON 1A Principles of Macroeconomics (5 units)
GEOG 10 World Regional Geography (4 units)
HIST 4A History of Western Civilization (4 units)
or HIST 4B History of Western Civilization (4 units)
or HIST 4C History of Western Civilization (4 units)
or HIST 4CH Honors History of Western Civilization (4 units)
MATH 10 Elementary Statistics (5 units)
PHIL 1 Critical Thinking (5 units)
POL I American Government & Politics 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 from http://bss.foothill.fhda.edu/certificates.
Certificate of Achievement (13 units)
Required Course (5 units)
SOC 1 Introduction to Sociology (5 units)
Core Courses (4 units)
SOC 8 Popular Culture (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)
Support Courses (4 units)
ANTH 2A Cultural Anthropology (4 units)
ECON 1A Principles of Macroeconomics (5 units)
GEOG 10 World Regional Geography (4 units)
or 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)
or HIST 4CH Honors History of Western Civilization (4 units)
MATH 10 Elementary Statistics (5 units)
PHIL 1 Critical Thinking (5 units)
POL I American Government & Politics 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)

SPANISH
Program Type(s):
AA Degree, Certificate of Proficiency, Career Certificate, Certificate of Specialization
Units required for major: 35, certificate: 12–30
Associate Degree Requirements*
Core Courses: (30 units)
SPAN 1 Elementary Spanish (5 units)
SPAN 2 Elementary Spanish (5 units)
SPAN 3 Elementary Spanish (5 units)
SPAN 4 Intermediate Spanish (5 units)
SPAN 5 Intermediate Spanish (5 units)

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.
Foothill College 2008-2009 www.foothill.edu
A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

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)
COMM 1A Public Speaking (4.5 units)
EDUC 50 Principles of Education: The Teaching Challenge (4 units)
HLTH 5 Emergency Response (5 units)
MATH 10 Elementary Statistics (5 units)
PSYC 1 General Psychology (5 units)
PSYC 25 Introduction to Abnormal Psychology (4 units)
COMM 2 Interpersonal Communication (4.5 units)
SPED 50 Introduction to Adaptive Fitness Techniques (3 units)
SPED 52 Intergenerational Adult Health & Development (3 units)
SPED 54 Principles of Therapeutic Exercise (4 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 Disorders (4 units)
SPED 70 Aquatic Exercise (3 units)
SPED 71 Special Topics in the Field of Fitness Therapy (3 units)
SPED 72 Stress, Wellness & Coping (3 units)
SPED 73 Introduction to Aquatic Exercise (3 units)
SPED 74 Principles of Aquatic Exercise (3 units)
SPED 75 Internship in Adaptive Aquatics (3 units)

Special Education Paraprofessional Certificate of Achievement (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: (optional)
SPAN 10A Spanish for Heritage Speakers (5 units)
SPAN 13A Intermediate Conversation I (4 units)
SPAN 13B Intermediate Conversation II (4 units)
SPAN 14A Advanced Conversation I (4 units)
SPAN 14B Advanced Conversation II (4 units)
SPAN 25A Advanced Composition & Reading (4 units)
SPAN 25B Advanced Composition & Reading (4 units)
SPAN 39 Contemporary Spanish Literature in Translation (4 units)

Certificate of Proficiency in Spanish Conversation (12 units)[2]
SPAN 13A Intermediate Conversation I (4 units)
SPAN 13B Intermediate Conversation II (4 units)
SPAN 14A Advanced Conversation I (4 units)
SPAN 14B Advanced Conversation II (4 units)

Certificate of Specialization in Spanish Language (15 units)[3]
SPAN 1 Elementary Spanish (5 units)
SPAN 2 Elementary Spanish (5 units)
SPAN 3 Elementary Spanish (5 units)

Career Certificate in Spanish Language (30 units)[4]
SPAN 1 Elementary Spanish (5 units)
SPAN 2 Elementary Spanish (5 units)
SPAN 3 Elementary Spanish (5 units)
SPAN 4 Intermediate Spanish (5 units)
SPAN 5 Intermediate Spanish (5 units)
SPAN 6 Intermediate Spanish (5 units)
SPAN 13A Intermediate Conversation I (4 units)
SPAN 13B Intermediate Conversation II (4 units)

Special Education Program type(s):
AA Degree, Certificate of Achievement
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)

**SPECIAL EDUCATION**

Program type(s):
AA Degree, Certificate of Achievement
Units required for major: 35, certificate: 27

Theatre Arts Program type(s):
AA Degree, Career Certificate
Units required for major: 59, certificate: 59

Associate Degree Requirements*
Core Courses: (31 units)
THTR 2A Introduction to Dramatic Literature (4 units)
THTR 2B Introduction to Dramatic Literature (4 units)
THTR 2C Introduction to Dramatic Literature (4 units)
THTR 7 Introduction to Directing (4 units)
THTR 20A Beginning Acting (3 units)
THTR 20B Intermediate Acting (3 units)
THTR 20C Advanced Acting I (3 units)
THTR 20D Advanced Acting II (3 units)
THTR 20E Advanced Acting III (3 units)

[2] 8 units must be completed in residence at Foothill College.
[3] 10 units must be completed in residence at Foothill College.
[4] Students who can demonstrate proficiency equivalent to 1 year of college Spanish, SPAN 1, 2, and 3 can be eliminated from the core courses. 18 units must be completed in residence at Foothill College.
Master Courses (12 units minimum)[1]
THTR 24 Readers Theatre (4 units)
THTR 38 Movement Practicum for the Actor (2 units)
THTR 40A Basic Theatrical Make-up (4 units)
THTR 40B Theatrical Make-up for Production (4 units)
THTR 46 Voice & Diction (4 units)
THTR 48 Voice Practicum for the Actor (2 units)
THTR 53 Auditioning for the Theatre (2 units)
THTR 54 Actor’s Workshop (4 units)
THTR 58 Movement for the Actor: Stage Combat (4 units)
THTR 62 Acting for Film & Television (2 units)
THTR 71 Fundamentals of Stage Management (4 units)

Support Courses: (12 units)
THTR 49, 49X & 49Y Rehearsal & Performance (2–8 units)
THTR 44 Production Projects (5 units)

Elective Courses: (4 units)[2]
THTR 1 Theatre Arts Appreciation (4 units)
THTR 5B Playwriting (4 units)
THTR 6 Advanced Playwriting (4 units)
THTR 7 Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21 Introduction to Technical Theatre (1 unit)
THTR 21A Scenery & Property Construction (3 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 34H Honors Institute Seminar in Theatre Arts (1 unit)
THTR 35 Department Honors Projects in Drama (2 units)
THTR 47, X, Y Summer Music: Drama Workshop (3–10 units)
THTR 61 The Theatre Live-On Stage (3 units)
THTR 72A Beginning CAD Drafting for the Theatre, Film & Television (4 units)
THTR 72B Beginning CAD Drafting for the Theatre, Film & Television (4 units)
CWE 51 Internship in Stage Management (1–8 units)
or CWE 52 Internship in Stage Management (1–8 units)

Emphasis in Stage Management
THTR 8 The Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 42A Introduction to Scene Design (4 units)
THTR 72B Beginning CAD Drafting for the Theatre, Film & Television (4 units)
THTR 73 Scenery Projects in Wood & Fabric (4 units)
CWE 51 Internship in Stage & Shop Technology (1–8 units)
or CWE 52 Internship in Stage & Shop Technology

Emphasis in Costume Technology
THTR 8 The Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 42A Introduction to Scene Design (4 units)
THTR 75 Introduction to Fashion & Costume Construction (4 units)
THTR 76 Introduction to Fashion & Costume Design (4 units)
THTR 81 Contemporary Issues in Performance Seminar (1 unit)
THTR 85, X, Y & Z Directed Field Study in Theatre (1–4 units)
THTR 95X & X Drama Summer Stock Workshop (3–5.5 units)
THTR 97, X, Y & Z Actor’s Ensemble (1–4 units)
MUS 13A Class Voice I (1 unit)

Career Certificate (59 units)
Core Courses (31 units)
Master Courses (12 units)
Support Courses (12 units)
Electives (4 units)

Program Type(s):
AA Degree, Certificate of Achievement, Career Certificate

Units required for major: 45, certificate: 28–46

Associate Degree Requirements*
Core Courses: (21 units)
THTR 1 Theatre Arts Appreciation (4 units)
THTR 20A Beginning Acting (3 units)
THTR 21 Introduction to Technical Theatre (1 unit)
THTR 21A Scenery & Property Construction (3 units)
THTR 72A Drafting for the Theatre, Film & Television (4 units)
THTR 49 Rehearsal & Performance (2 units)

Support Courses: (24 units)
Choose 24 units from only one of the areas of emphasis.

Emphasis in Stage Management
THTR 8 Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 49, Y Rehearsal & Performance (2–6 units)
THTR 71 Fundamentals of Stage Management (4 units)
THTR 72B Beginning CAD Drafting for the Theatre, Film & Television (4 units)
CWE 51 Internship in Stage Management (1–8 units)
or CWE 52 Internship in Stage Management (1–8 units)

Emphasis in Stage & Shop Technology
THTR 8 The Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 42A Introduction to Scene Design (4 units)
THTR 72B Beginning CAD Drafting for the Theatre, Film & Television (4 units)
THTR 73 Scenery Projects in Wood & Fabric (4 units)
THTR 78 Theatre Technology in Metal (4 units)
CWE 51 Internship in Stage & Shop Technology (1–8 units)
or CWE 52 Internship in Stage & Shop Technology

Emphasis in Costume Technology
THTR 8 The Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 42A Introduction to Scene Design (4 units)
THTR 75 Introduction to Fashion & Costume Construction (4 units)
THTR 76 Introduction to Fashion & Costume Design (4 units)
CWE 51 Internship in Costume Design/Technology (1–8 units)
or CWE 52 Internship in Costume Design/Technology

Emphasis in Stage Lighting Technology
THTR 8 The Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 42A Introduction to Scene Design & Painting (4 units)
THTR 72B Beginning CAD Drafting for the Theatre, Film & Television (4 units)

1] Master courses are offered every quarter and 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.

2] Master courses not used to fulfill the master courses requirement and/or at least one of the following courses.

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

Foothill College 2008–2009  www.foothill.edu
THTR 72C 3D Computer Drafting for the Theatre, Film & Television (4 units)
THTR 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**
THTR 8 The Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 42A Introduction to Scene Design (4 units)
THTR 72B Beginning CAD Drafting for the Theatre, Film & Television (4 units)
THTR 72C 3D Computer Drafting for Theatre, Film & Television (4 units)
THTR 73 Scenery Projects in Wood & Fabric (3 units)
THTR 79 Model Building for the Theatre, Film & Television (4 units)
CWE 51 Internship in Scenic Design (1–8 units)
or CWE 52 Internship in Scenic Design

**Certificate of Achievement (45 units)**
Certificate of achievement in each option (5) is available with the same requirements as A.A. degree, except general education courses are not required.

**All the following Career Certificates require:**
THTR 21 Introduction to Technical Theatre (1 unit)
THTR 21A Scenery & Property Construction (3 units)

**Emphasis in Stage Management Career Certificate (28 units)**
THTR 21 Introduction to Technical Theatre (1 unit)
THTR 21A Scenery & Property Construction (3 units)

**And 24 units from the following:**
THTR 20A Beginning Acting (3 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 49Y Rehearsal & Performance (6 units)
or DRAM 49Z Rehearsal & Performance (8 units)
THTR 71 Fundamentals of Stage Management (4 units)
THTR 72B Beginning CAD Drafting for the Theatre, Film & Television (4 units)
CWE 51 Occupational Cooperative Work Experience (1–8 units)
or CWE 52 Occupational Cooperative Work Experience (1–8 units)

**Emphasis in Stage & Shop Technology Career Certificate (28 units)**
THTR 21 Introduction to Technical Theatre (1 unit)
THTR 21A Scenery & Property Construction (3 units)

**And 24 units from the following:**
THTR 8 The Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 42A Introduction to Scene Design (4 units)
THTR 72B Beginning CAD Drafting for the Theatre, Film & Television (4 units)
CWE 51 Occupational Cooperative Work Experience (1–8 units)
or CWE 52 Occupational Cooperative Work Experience (1–8 units)

**Emphasis in Costume Technology Career Certificate (28 units)**
THTR 21 Introduction to Technical Theatre (1 unit)
THTR 21A Scenery & Property Construction (3 units)

**And 24 units from the following:**
THTR 8 The Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 42A Introduction to Scene Design (4 units)
THTR 75 Introduction to Fashion & Costume Construction (4 units)
THTR 76 Introduction to Fashion & Costume Design (4 units)
CWE 51 Occupational Cooperative Work Experience (1–8 units)
or CWE 52 Occupational Cooperative Work Experience (1–8 units)

**Emphasis in Stage Lighting Technology Career Certificate (28 units)**
THTR 21 Introduction to Technical Theatre (1 unit)
THTR 21A Scenery & Property Construction (3 units)

**And 24 units from the following:**
THTR 8 The Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 42A Introduction to Scene Design (4 units)
THTR 72B Beginning CAD Drafting for the Theatre, Film & Television (4 units)
THTR 72C 3D Computer Drafting for the Theatre, Film & Television (4 units)
THTR 77 Introduction to Lighting Design & Technology (4 units)
CWE 51 Occupational Cooperative Work Experience (1–8 units)
or CWE 52 Occupational Cooperative Work Experience (1–8 units)

**Emphasis in Scenic Design & Painting Assistant Career Certificate (28 units)**
THTR 21 Introduction to Technical Theatre (1 unit)
THTR 21A Scenery & Property Construction (3 units)

**And 24 units from the following:**
THTR 8 The Multicultural Mosaic of Performing Arts in America (4 units)
THTR 21B Intermediate Scenery & Property Construction (3 units)
THTR 21C Advanced Scenery & Property Construction (3 units)
THTR 42A Introduction to Scene Design (4 units)
THTR 72B Beginning CAD Drafting for the Theatre, Film & Television (4 units)
THTR 72C 3D Computer Drafting for the Theatre, Film & Television (4 units)
THTR 73 Scenery Projects in Wood & Fabric (3 units)
THTR 79 Model Building for the Theatre, Film & Television (4 units)
CWE 51 Occupational Cooperative Work Experience (1–8 units)
or CWE 52 Occupational Cooperative Work Experience (1–8 units)

**TRAVEL CAREERS**

**Program Type(s):**
AA Degree, Certificate of Achievement, Career Certificate

**Units required for major:** 45, certificate: 7–54

**Associate Degree Requirements**

**Core Courses:** (32 units)
T C 50 Introduction to Travel Careers (2 units)

*A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.
Foothill College 2008–2009  www.foothill.edu*
A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

**VETERINARY TECHNOLOGY**

**Program Type(s):**
- A5 Degree, Career Certificate

**Units required for major:** 97, certificate: 13

**Associate Degree Requirements**

**Core Courses:** (97 units)

**First Year[1]**
- Fall Quarter (16.5 units)
  - VT 50 Current Topics in Veterinary Technology (.5 unit)
  - VT 53A Medical Terminology (1 unit)
  - VT 55 Animal Management & Clinical Skills I (4 units)
  - VT 57A Animal Care Skills (1 unit)
  - CHEM 30A Survey of Inorganic & Organic Chemistry (5 units)
  - BIOL 40A Human Anatomy & Physiology (5 units)
- Winter Quarter (17.5 units)
  - VT 50 Current Topics in Veterinary Technology (0.5 unit)
  - VT 53B Medical Calculations (1 unit)
  - VT 56 Animal Management & Clinical Skills II (4 units)
  - VT 57B Animal Care Skills (1 unit)
  - BIOL 40B Human Anatomy & Physiology (5 units)
  - BIOL 41 Microbiology (6 units)
- Spring Quarter (16.5 units)
  - VT 50 Current Topics in Veterinary Technology (.5 unit)
  - VT 53C Introduction to Large Animal Care (1 unit)
  - VT 57C Animal Care Skills (1 unit)
  - VT 58 Laboratory Animal Technology (4 units)
  - VT 59 Clinical Internship (3 units)
- Second Year[2]
  -Fall Quarter (17.5 units)
    - VT 50 Current Topics in Veterinary Technology (0.5 unit)
    - VT 53C Introduction to Large Animal Care (1 unit)
    - VT 57C Animal Care Skills (1 unit)
    - VT 58 Laboratory Animal Technology (4 units)
    - VT 59 Clinical Internship (3 units)
  - Winter Quarter (14.5 units)
    - VT 50 Current Topics in Veterinary Technology (0.5 unit)
    - VT 53C Introduction to Large Animal Care (1 unit)
    - VT 57C Animal Care Skills (1 unit)
    - VT 58 Laboratory Animal Technology (4 units)
    - VT 59 Clinical Internship (3 units)

**Career Certificate in Travel Careers (45 units)**

**Career Certificate in Leisure Travel (54 units)**

**Career Certificate in Travel Reservations (7 units)**

**Career Certificate in Domestic Corporate Travel (15 units)**

**Career Certificate in International Corporate Travel (17 units)**

---

[1] All courses must be taken in sequence and completed with a grade of C or better.

[2] All courses must be taken in sequence and completed with a grade of C or better.
A minimum of 90 units required for the A.A./A.S. Degree, to include required courses, required electives, and graduation requirements, and these minimum proficiencies: ENGL 1A or ESL 26, and MATH 103 or 105.

Spring Quarter (14.5 units)
VT 50 Current Topics in Veterinary Technology (0.5 unit)
VT 72 Principles of Veterinary Dentistry (2 units)
VT 85 Veterinary Emergency & Critical Care (4 units)
VT 87B Advanced Animal Care Skills (1 unit)
VT 93 Clinical Internship (4 units)
VT 95 Veterinary Technician Proficiency (2 units)
VT 95L Veterinary Technician Proficiency Laboratory (1 unit)

Online Veterinary Assisting Career Certificate (13 units)
VT 52A Veterinary Assisting I (5 units)
VT 52B Veterinary Assisting II (5 units)
VT 88A Clinical Preceptorship I (1.5 units)
VT 88B Clinical Preceptorship II (1.5 units)

Video Arts: mediA studies
Program Type(s):
AA Degree, Certificate of Proficiency, Career Certificate, Skill Certificate
Units required for major: 48.5, certificate: 12–48.5

Associate Degree Requirements*
Core Courses: (36.5 units)
VART 1 Introduction to Film Studies (4 units)
VART 20 Digital Video Production I (4 units)
VART 2A History of Film: 1895–1945 (4 units)
VART 2B History of Film: 1945–Current (4 units)
VART 2C Current Trends of Film, TV & the Internet (4 units)
MUS 50B Entertainment Law & New Media (4 units)
VART 8 Global Media (4 units)
VART 3 American Cinema (4 units)
COMM 10 Gender, Communication & Culture (4.5 units)
or COMM 12 Intercultural Communication (4.5 units)

Support Courses: (12 units)
F A 1 Introduction to Popular Culture (4 units)
VART 7 History of Animation (4 units)
MUS 50A Music Business (4 units)
GID 1 History of Graphic Design (4 units)
VART 15 Web Video (4 units)
VART 4 Scriptwriting for Film & Video (4 units)
VART 25 Lighting for Digital Video & Film (4 units)
VART 84 Digital Video Editing I (4 units)
VART 85 Digital Video Editing II (4 units)
VART 86 Introduction to Digital Sound, Video & Animation (4 units)
or GID 80 Introduction to Digital Sound, Video & Animation (4 units)
VART 81B Recording Arts II: Audio for Video (4 units)
or MUS 81B Recording Arts II: Audio for Video (4 units)
VART 89 Introduction to the MAYA 3-D System (4 units)
VART 50 Careers in the Visual Arts (2 units)
VART 60 Careers in the Video Arts (2 units)
VART 80, X, Y Special Projects in Video Arts (1–4 units)
THTR 62 Acting for Film & Video (4 units)
GID 71 Storyboarding (4 units)

Career Certificate in Media Studies (24.5 units)
VART 1 Introduction to Film Studies (4 units)
MUS 50B Entertainment Law & New Media (4 units)
VART 8 Global Media (4 units)

and three of the following:
COMM 10 Gender, Communication & Culture (4.5 units)
or COMM 12 Intercultural Communication (4.5 units)
VART 2A History of Film: 1895–1945 (4 units)
VART 2B History of Film: 1945–Current (4 units)
VART 2C Current Trends in Film, TV & the Internet (4 units)
VART 3 American Cinema (4 units)
VART 7 History of Animation (4 units)
PHOT 8 Photography of Multicultural America (4 units)
or PHOT 8H Honors Photography of Multicultural America (4 units)

Skill Certificate in Media Studies (12 units)
VART 1 Introduction to Film Studies (4 units)
MUS 50B Entertainment Law & New Media (4 units)

and one of the following:
VART 2A History of Film: 1895–1945 (4 units)
VART 2B History of Film: 1945–Current (4 units)
VART 2C Current Trends in Film, TV & the Internet (4 units)
VART 3 American Cinema (4 units)
VART 8 Global Media (4 units)
VART 7 History of Animation (4 units)

Video Arts: Production
Program Type(s):
AA Degree, Certificate of Proficiency, Career Certificate, Skill Certificate
Units required for major: 49, certificate: 12–49

Associate Degree Requirements*
Core Courses: (33 units)
VART 1 Introduction toFilm Studies (4 units)
VART 15 Web Video (4 units)
VART 86 Introduction to Digital Sound, Video & Animation (4 units)
or GID 80 Introduction to Digital Sound, Video & Animation (4 units)
VART 81B Recording Arts II: Audio for Video (4 units)
or MUS 81B Recording Arts II: Audio for Video (4 units)
VART 89 Introduction to the MAYA 3-D System (4 units)
VART 50 Careers in the Visual Arts (2 units)
VART 60 Careers in the Video Arts (2 units)
VART 80, X, Y Special Projects in Video Arts (1–4 units)
THTR 62 Acting for Film & Video (4 units)
GID 71 Storyboarding (4 units)

PHOT 1 Black & White Photography I (4 units)
or PHOT 5 Introduction to Photography (4 units)
VART 86 Introduction to Digital Sound, Video & Animation (4 units)
or GID 80 Introduction to Digital Sound, Video & Animation (4 units)
VART 20 Digital Video Production I (4 units)
or GID 20 Digital Video Production I (4 units)
VART 21 Digital Video Production II (4 units)
VART 84 Digital Video Editing I (4 units)
VART 85 Digital Video Editing II (4 units)

and one of the following:
VART 50 Careers in the Visual Arts (2 units)
VART 60 Careers in the Video Arts (2 units)
or GID 60 Careers in the Video Arts (2 units)
VART 80, X, Y Special Projects in Video Arts (1–4 units)

Support Courses: (16 units minimum)

Video Production
VART 4 Scriptwriting for Film & Video (4 units)
VART 25 Lighting for Digital Video & Film (4 units)
VART 80, X, Y Special Projects in Video Arts (1–4 units)
GID 71 Storyboarding (4 units)
THTR 62 Acting for Film & Video (2 units)

Media Studies
FA 1 Introduction to Popular Culture (4 units)
COMM 10 Gender Communication & Culture (4.5 units)
COMM 12 Intercultural Communication (4.5 units)
VART 2A History of Film: 1895–1945 (4 units)
VART 2B History of Film: 1945–Current (4 units)
VART 2C Current Trends in Film, TV & the Internet (4 units)
VART 3 American Cinema (4 units)
VART 7 History of Animation (4 units)
VART 8 Global Media (4 units)
MUS 50B Entertainment Law & New Media (4 units)
PHOT 8 Photography of Multicultural America (4 units)
PHOT 10 History of Photography (4 units)
GID 1 History of Graphic Design (4 units)

Music Technology
MUS 80A Recording Arts I: Recording Studio Basics (4 units)
MUS 81A Recording Arts II: Audio Editing & Production (4 units)
VART 81B Recording Arts II: Audio for Video (4 units)
or MUS 81B Recording Arts II: Audio for Video (4 units)
MUS 82A Recording Arts III: Pro Tools 101 (4 units)
MUS 82B Recording Arts III: Pro Tools 110 (4 units)

Motion Graphic Design & Animation
GID 54 Typography (4 units)
GID 72 Cartooning (4 units)
VART 87 Motion Graphics (4 units)
or GID 84 Motion Graphics (4 units)
GID 56 Web Site Design (4 units)
PHOT 65A Introduction to Digital Photography (4 units)
VART 89 Introduction to the MAYA 3-D System (4 units)
CAST 52A Introduction to Macromedia Flash (5 units)

Certificate of Proficiency Video Arts Production (49 units)
Same as A.A. degree without general education requirements.

Video Production Career Certificate (24 units)
VART 86 Introduction to Digital Sound, Video & Animation (4 units)
or GID 80 Introduction to Digital Sound, Video & Animation (4 units)
VART 15 Web Video (4 units)
VART 20 Digital Video Production I (4 units)
or GID 20 Digital Video Production I (4 units)
VART 21 Digital Video Production II (4 units)

Digital Videography Skill Certificate of (12 units)
VART 20 Digital Video Production I (4 units)
or GID 20 Digital Video Production I (4 units)
VART 21 Digital Video Production II (4 units)
VART 1 Introduction to Film Studies (4 units)

Digital Video Editing Skill Certificate (12 units)
VART 84 Digital Video Editing I (4 units)
VART 85 Digital Video Editing II (4 units)
VART 86 Introduction to Digital Sound, Video & Animation (4 units)
or GID 80 Introduction to Digital Sound, Video & Animation (4 units)

Audio for Video Skill Certificate (Minimum 12 units)
VART 84 Digital Video Editing I (4 units)
MUS 81A Recording Arts II: Audio Editing & Production (4 units)
VART 81B Recording Arts II: Audio for Video (4 units)
or MUS 81B Recording Arts II: Audio for Video (4 units)

Motion Graphic Design Skill Certificate (12 units)
GID 54 Typography (4 units)
VART 87 Motion Graphics (4 units)
or 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

Program Type(s):
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 & Culture (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)
or PSYC 30 Social Psychology (4 units)
SOC 40 Aspects of Marriage & Family (4 units)
or PSYC 30 Social Psychology (4 units)
SOSC 20 Cross-Cultural Perspectives for a Multicultural Society (4 units)
ENGL 22 Women Writers (4 units)
WMN 15 History of Women in Art (4 units)

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

Foothill College 2008–2009 www.foothill.edu
Course Numbering System

The following course numbering system provides a detailed explanation regarding course number designations. When in doubt about the transferability of a course, always consult a counselor.

You are responsible for reviewing prerequisites and repeatability as noted in course descriptions. Only courses with substandard grades may be repeated. Consult a Foothill counselor for more information.

Where there is a conflict between the catalog statements and published curriculum sheets, the latter will take precedence. Consult a counselor for the most current information.

- Courses designated 1–99 are baccalaureate in nature and are generally transferable to the California State University.
- Courses approved for transfer to the University of California are usually numbered 1–49. There are some exceptions to this rule; therefore, you should always consult with a counselor to verify course transferability. For more information, access www.foothill.edu or www.assist.org. The term degree applicable signifies courses which apply to the associate degree and/or baccalaureate transfer degree.
- Courses numbered 100 and above are not transferable.
- Courses numbered 200–99 are prerequisites for required courses that lead to the Associate in Arts and Associate in Science degree.
- Courses numbered 300–399 are workshop, review and other courses offered to meet special collegiate needs of a community nature.
- Courses numbered 400–499 are non-credit, non-graded courses in senior education, special education or other areas that do not apply to the associate degree.
- Courses listed with an “S” suffix signify the first half of the course; a “T” suffix indicates the second half. Courses must be taken in sequential order; and both halves must be completed for credit.
- Community services courses are fee-based, and are scheduled and publicized separately from the state-supported courses identified in this catalog.
California Articulation Number (CAN) System

Foothill participates in the California Articulation Number (CAN) System. When a course appears on the CAN list, it means that this lower-division introductory course corresponds to a course taught in other two- and four-year colleges in California. Credit for a course with a CAN number may be transferred to a participating college and used in lieu of a course with the same CAN number at that college. Participating colleges and universities display these numbers in their catalogs, along with their own course number, title and description. For the most up-to-date information, consult a counselor or access www.csus.edu.

<table>
<thead>
<tr>
<th>CAN COURSE</th>
<th>FOOTHILL COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 2</td>
<td>ANTH 1</td>
</tr>
<tr>
<td>ANTH 4</td>
<td>ANTH 2A</td>
</tr>
<tr>
<td>ANTH 6</td>
<td>ANTH 8</td>
</tr>
<tr>
<td>ART 2</td>
<td>ART 2A+2B</td>
</tr>
<tr>
<td>ART 4</td>
<td>ART 2B+2C</td>
</tr>
<tr>
<td>ART 6</td>
<td>ART 45A+45AX</td>
</tr>
<tr>
<td>ART 8</td>
<td>ART 4A+4B</td>
</tr>
<tr>
<td>ART 10</td>
<td>ART 69</td>
</tr>
<tr>
<td>ART 14</td>
<td>ART 5A</td>
</tr>
<tr>
<td>ART 16</td>
<td>ART 5B</td>
</tr>
<tr>
<td>ART 18</td>
<td>PHOT 1</td>
</tr>
<tr>
<td>ART 20</td>
<td>ART 69</td>
</tr>
<tr>
<td>ART SEQ A</td>
<td>ART 2A+2B+2C</td>
</tr>
<tr>
<td>BIOL 2</td>
<td>BIOL 1A</td>
</tr>
<tr>
<td>BIOL 14</td>
<td>BIOL 41</td>
</tr>
<tr>
<td>BIOL SEQ A</td>
<td>BIOL 1A+1B+1C</td>
</tr>
<tr>
<td>BIOL SEQ B</td>
<td>BIOL 40A+40B+40C</td>
</tr>
<tr>
<td>BUS 2</td>
<td>ACTG 1A+1B</td>
</tr>
<tr>
<td>BUS 4</td>
<td>ACTG 1C</td>
</tr>
<tr>
<td>BUS 6</td>
<td>CIS 60</td>
</tr>
<tr>
<td>BUS 8</td>
<td>BUSI 18</td>
</tr>
<tr>
<td>BUS SEQ A</td>
<td>ACCT 1A+1B+1C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAN COURSE</th>
<th>FOOTHILL COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1</td>
<td>CHEM 1A</td>
</tr>
<tr>
<td>CHEM 2</td>
<td>CHEM 1A+1B</td>
</tr>
<tr>
<td>CHEM 3</td>
<td>CHEM 1B</td>
</tr>
<tr>
<td>CHEM 4</td>
<td>CHEM 1B+1C</td>
</tr>
<tr>
<td>CHEM 5</td>
<td>CHEM 1C</td>
</tr>
<tr>
<td>CHEM 6</td>
<td>CHEM 30A</td>
</tr>
<tr>
<td>CHEM 8</td>
<td>CHEM 30B</td>
</tr>
<tr>
<td>CHEM SEQ A</td>
<td>CHEM 1A+1B+1C</td>
</tr>
<tr>
<td>CHEM SEQ B</td>
<td>CHEM 30A &amp; 30B</td>
</tr>
<tr>
<td>CHIN SEQ A</td>
<td>CHIN 1+2+3</td>
</tr>
<tr>
<td>CHIN SEQ B</td>
<td>CHIN 4+5+6</td>
</tr>
<tr>
<td>CSCI 2</td>
<td>CIS 2</td>
</tr>
<tr>
<td>CSCI 6</td>
<td>CIS 12A</td>
</tr>
<tr>
<td>CSCI 16</td>
<td>CIS 25A</td>
</tr>
<tr>
<td>CSCI 22</td>
<td>CIS 15A OR 27A</td>
</tr>
<tr>
<td>CSCI 26</td>
<td>CIS 18 OR MATH 22</td>
</tr>
<tr>
<td>DRAM 6</td>
<td>THTR 46</td>
</tr>
<tr>
<td>DRAM 8</td>
<td>THTR 20A+20B</td>
</tr>
<tr>
<td>DRAM 10</td>
<td>THTR 77</td>
</tr>
<tr>
<td>DRAM 14</td>
<td>THTR 40A</td>
</tr>
<tr>
<td>DRAM 18</td>
<td>THTR 1</td>
</tr>
<tr>
<td>DRAM 20</td>
<td>THTR 58</td>
</tr>
</tbody>
</table>

For the most up-to-date information, consult a counselor or access www.csus.edu.
<table>
<thead>
<tr>
<th>CAN COURSE</th>
<th>FOOTHILL COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2</td>
<td>ECON 1A</td>
</tr>
<tr>
<td>ECON 4</td>
<td>ECON 1B</td>
</tr>
<tr>
<td>ENGL 2</td>
<td>ENGL 1A</td>
</tr>
<tr>
<td>ENGL 4</td>
<td>ENGL 1B</td>
</tr>
<tr>
<td>ENGL 6</td>
<td>CRWR 6</td>
</tr>
<tr>
<td>ENGL 8</td>
<td>ENGL 46A+46B</td>
</tr>
<tr>
<td>ENGL 10</td>
<td>ENGL 46B+46C</td>
</tr>
<tr>
<td>ENGL 20</td>
<td>ENGL 11</td>
</tr>
<tr>
<td>ENGL SEQ A</td>
<td>ENGL 1A+1B</td>
</tr>
<tr>
<td>ENGL SEQ B</td>
<td>ENGL 46A+46B+46C</td>
</tr>
<tr>
<td>ENGR 4</td>
<td>ENGR 45</td>
</tr>
<tr>
<td>ENGR 6</td>
<td>ENGR 37+37L</td>
</tr>
<tr>
<td>ENGR 8</td>
<td>ENGR 35</td>
</tr>
<tr>
<td>ENGR 12</td>
<td>ENGR 37</td>
</tr>
<tr>
<td>FCS 2</td>
<td>BIOL 45</td>
</tr>
<tr>
<td>FCS 14</td>
<td>CHLD 55</td>
</tr>
<tr>
<td>FREN 2</td>
<td>FREN 1+2</td>
</tr>
<tr>
<td>FREN 3</td>
<td>FREN 2</td>
</tr>
<tr>
<td>FREN 5</td>
<td>FREN 3</td>
</tr>
<tr>
<td>FREN 7</td>
<td>FREN 4</td>
</tr>
<tr>
<td>FREN 9</td>
<td>FREN 5</td>
</tr>
<tr>
<td>FREN 11</td>
<td>FREN 6</td>
</tr>
<tr>
<td>FREN SEQ A</td>
<td>FREN 1+2+3</td>
</tr>
<tr>
<td>FREN SEQ B</td>
<td>FREN 4+5+6</td>
</tr>
<tr>
<td>GEOG 4</td>
<td>GEOG 2</td>
</tr>
<tr>
<td>GEOG 6</td>
<td>GEOG 1</td>
</tr>
<tr>
<td>GEOL 2</td>
<td>GEOL 10</td>
</tr>
<tr>
<td>GEOL 4</td>
<td>GEOL 11</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAN COURSE</th>
<th>FOOTHILL COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 1</td>
<td>GERM 1</td>
</tr>
<tr>
<td>GERM 3</td>
<td>GERM 2</td>
</tr>
<tr>
<td>GERM 5</td>
<td>GERM 3</td>
</tr>
<tr>
<td>GERM 7</td>
<td>GERM 4</td>
</tr>
<tr>
<td>GERM 11</td>
<td>GERM 6</td>
</tr>
<tr>
<td>GERM SEQ A</td>
<td>GERM 1+2+3</td>
</tr>
<tr>
<td>GERM SEQ B</td>
<td>GERM 4+5+6</td>
</tr>
<tr>
<td>GOVT 2</td>
<td>POLI 1</td>
</tr>
<tr>
<td>HIST 2</td>
<td>HIST 4A+4B</td>
</tr>
<tr>
<td>HIST SEQ A</td>
<td>HIST 4A+4B+4C</td>
</tr>
<tr>
<td>JAPN 8</td>
<td>JAPN 4+5</td>
</tr>
<tr>
<td>JAPN SEQ A</td>
<td>JAPN 1+2+3</td>
</tr>
<tr>
<td>JAPN SEQ B</td>
<td>JAPN 4+5+6</td>
</tr>
<tr>
<td>JOUR 2</td>
<td>ENGL 4</td>
</tr>
<tr>
<td>MATH 2</td>
<td>MATH 44</td>
</tr>
<tr>
<td>MATH 8</td>
<td>MATH 51</td>
</tr>
<tr>
<td>MATH 10</td>
<td>MATH 49</td>
</tr>
<tr>
<td>MATH 12</td>
<td>MATH 11</td>
</tr>
<tr>
<td>MATH 17</td>
<td>MATH 1A</td>
</tr>
<tr>
<td>MATH 18</td>
<td>MATH 1A+1B</td>
</tr>
<tr>
<td>MATH 19</td>
<td>MATH 1B</td>
</tr>
<tr>
<td>MATH 20</td>
<td>MATH 1B+1C</td>
</tr>
<tr>
<td>MATH 21</td>
<td>MATH 1C</td>
</tr>
<tr>
<td>MATH 22</td>
<td>MATH 1C+1D</td>
</tr>
<tr>
<td>MATH 23</td>
<td>MATH 1D</td>
</tr>
<tr>
<td>MATH 24</td>
<td>MATH 2A</td>
</tr>
<tr>
<td>MATH 26</td>
<td>MATH 2B</td>
</tr>
<tr>
<td>MATH 34</td>
<td>MATH 12</td>
</tr>
</tbody>
</table>

For the most up-to-date information, consult a counselor or access www.csus.edu.
<table>
<thead>
<tr>
<th>CAN COURSE</th>
<th>Foothill Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH SEQ B</td>
<td>MATH 1A+1B+1C</td>
</tr>
<tr>
<td>MATH SEQ C</td>
<td>MATH 1A+1B+1C+1D</td>
</tr>
<tr>
<td>PHIL 2</td>
<td>PHIL 4</td>
</tr>
<tr>
<td>PHIL 4</td>
<td>PHIL 8</td>
</tr>
<tr>
<td>PHIL 6</td>
<td>PHIL 1</td>
</tr>
<tr>
<td>PHYS 2</td>
<td>PHYS 2A+2B</td>
</tr>
<tr>
<td>PHYS 4</td>
<td>PHYS 2B+2C</td>
</tr>
<tr>
<td>PHYS 8</td>
<td>PHYS 4A</td>
</tr>
<tr>
<td>PHYS 12</td>
<td>PHYS 4B</td>
</tr>
<tr>
<td>PHYS 14</td>
<td>PHYS 4C</td>
</tr>
<tr>
<td>PHYS 16</td>
<td>PHYS 4D</td>
</tr>
<tr>
<td>PHYS SEQ A</td>
<td>PHYS 2A+2B+2C</td>
</tr>
<tr>
<td>PHYS SEQ B</td>
<td>PHYS 4A+4B+4C</td>
</tr>
<tr>
<td>PHYS SEQ C</td>
<td>PHYS 4A+4B+4C+4D</td>
</tr>
<tr>
<td>PSY 2</td>
<td>PSYC 1</td>
</tr>
<tr>
<td>SOC 2</td>
<td>SOC 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAN COURSE</th>
<th>Foothill Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 4</td>
<td>SOC 20</td>
</tr>
<tr>
<td>SPAN 1</td>
<td>SPAN 1</td>
</tr>
<tr>
<td>SPAN 2</td>
<td>SPAN 1+2</td>
</tr>
<tr>
<td>SPAN 3</td>
<td>SPAN 2</td>
</tr>
<tr>
<td>SPAN 4</td>
<td>SPAN 2+3</td>
</tr>
<tr>
<td>SPAN 5</td>
<td>SPAN 3</td>
</tr>
<tr>
<td>SPAN 7</td>
<td>SPAN 4</td>
</tr>
<tr>
<td>SPAN 9</td>
<td>SPAN 5</td>
</tr>
<tr>
<td>SPAN 11</td>
<td>SPAN 6</td>
</tr>
<tr>
<td>SPAN SEQ A</td>
<td>SPAN 1+2+3</td>
</tr>
<tr>
<td>SPAN SEQ B</td>
<td>SPAN 4+5+6</td>
</tr>
<tr>
<td>SPCH 4</td>
<td>COMM 1A</td>
</tr>
<tr>
<td>SPCH 6</td>
<td>COMM 1B</td>
</tr>
<tr>
<td>SPCH 10</td>
<td>COMM 4</td>
</tr>
<tr>
<td>STAT 2</td>
<td>MATH 10</td>
</tr>
</tbody>
</table>

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

Language Arts

ACAD 102 PUNCTUATION IMPROVEMENT 1 Unit
Advisory: Pass/No Pass.
May be taken 3 times for credit.
3 hours laboratory.
Computerized or text-based instruction in punctuation skills. Students begin at their own level, based on diagnostic assessment. Areas covered can include analysis and application of punctuation rules, usage and grammar. Materials available at beginning, intermediate and advanced levels.

ACAD 104 SPELLING IMPROVEMENT 1 Unit
Advisory: Pass/No Pass.
May be taken 3 times for credit.
3 hours laboratory.
Computerized or text-based course designed to improve spelling skills. Students begin at their own level, based on diagnostic assessment. Areas covered can include review of phonics, homonyms and analysis, and application of spelling rules. Emphasis on integrating these rules into writing. Materials available at beginning and intermediate levels.

ACAD 105 WRITING BETTER SENTENCES 1 Unit
Advisory: Pass/No Pass.
May be taken 3 times for credit.
3 hours laboratory.
Computerized or text-based instruction in improving sentence skills. Areas covered can include review of grammar and punctuation rules as relevant to the writing process and introduction to simple, compound, complex and embedded sentence structures. Emphasis on integrating subskills into the whole writing process. Materials available at beginning, intermediate and advanced levels.

ACAD 108 RESEARCH PAPER ASSISTANCE 1 Unit
Advisory: Pass/No Pass.
May be taken 3 times for credit.
3 hours laboratory.
Individualized course designed to teach basic techniques for the research paper. Skills include selection of topic, collection of data, requirements of form, MLA documentation, and production of a short research paper. One-on-one instruction, conferences, and on-going assessment are the methods used.

ACAD 110 GRAMMAR IMPROVEMENT 1 Unit
Advisory: Pass/No Pass.
May be taken 3 times for credit.
3 hours laboratory.
Computerized or text-based instruction in grammar. Students begin at their own level, based on diagnostic assessment. Areas covered can include analysis and application of structural elements, punctuation rules and sentence boundaries. Materials available at beginning, intermediate and advanced levels.

ACAD 112 VOCABULARY IMPROVEMENT 1 Unit
Advisory: Pass/No Pass.
May be taken 3 times for credit.
3 hours laboratory.
Computerized or text-based instruction in improving vocabulary skills. Students begin at their own level, based on diagnostic assessment. Areas covered can include understanding of word parts, analysis of context clues, and learning of new words. Materials available at beginning, intermediate and advanced levels.

ACAD 122 LISTENING & PRONUNCIATION SKILLS FOR ESL 1 Unit
Advisory: Pass/No Pass.
May be taken 3 times for credit.
3 hours laboratory.
Computerized or text-based instruction in improving listening comprehension and pronunciation skills for non-native speakers of English. Materials available at beginning, intermediate and advanced levels.

ACCOUNTING

Business & Social Sciences

ACTG 1A FINANCIAL ACCOUNTING I 5 Units
Advisory: Eligibility for MATH 220 and ESL 26.
5 hours lecture, 1 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+1C]

ACTG 1B FINANCIAL ACCOUNTING II 5 Units
Prerequisite: ACTG 1A.
5 hours lecture, 1 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+1C]

ACTG 1C MANAGERIAL ACCOUNTING 5 Units
Prerequisite: ACTG 1B.
Advisory: MATH 10 or high school algebra recommended.
5 hours lecture, 1 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 I 4 Units
Prerequisite: ACTG 1B.
4 hours lecture.
Review of financial accounting standards, accounting information processing systems and the resulting financial statements. Selected topics related to present value applications, valuation techniques, and revenue recognition. Also covered, accounting for cash, receivables, and inventory.

ACTG 51B INTERMEDIATE ACCOUNTING II 4 Units
Prerequisite: ACTG 51A.
4 hours lecture.
Accounting for PP&E, intangible assets, current liabilities, long-term liabilities, and equity.

ACTG 51C INTERMEDIATE ACCOUNTING III 4 Units
Prerequisite: ACTG 51B
4 hours lecture.
Accounting for Investments, Income Taxes, Pensions and Post-retirement Benefits, Leases, and Accounting Changes and Error Analysis; also covered, the Cash Flow Statement, and Full Disclosure in Financial Reporting.

ACTG 60 ACCOUNTING FOR SMALL BUSINESS 5 Units
5 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu

109
### ACTG 64A COMPUTERIZED ACCOUNTING PRACTICE 2 Units
Prerequisite: ACTG 1A or equivalent experience.
Advisory: Not open to students with credit in CIS 64A.
4 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
Prerequisite: ACTG 1B or equivalent experience.
4 hours lecture-laboratory.
Practice in using an electronic spreadsheet program to organize and process financial and managerial accounting data. Includes research on the Internet.

### ACTG 65 PAYROLL & BUSINESS TAX ACCOUNTING 4 Units
Prerequisite: ACTG 1B.
4 hours lecture.
Presentation of basic payroll procedures used in business today. Provides practice in recording procedures and preparation of tax returns.

### ACTG 66 COST ACCOUNTING 4 Units
Prerequisite: ACTG 1C or equivalent experience.
5 hours lecture.
Fundamentals of activity-based costing, job-order, process cost, and standard cost accounting systems.

### ACTG 67 TAX ACCOUNTING 5 Units
Advisory: Eligibility for MATH 220 and ESL 26.
5 hours lecture.
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
Corequisite: Concurrent enrollment in ACTG 67 or equivalent experience.
May be taken 3 times for credit.
4 hours lecture.
Current federal income tax law as it relates to sole proprietorships and partnerships.

### ACTG 68B ADVANCED TAX ACCOUNTING II 4 Units
Prerequisite: ACTG 68A.
4 hours lecture.
Current federal income tax law as it relates to corporations, estate, trust, and gift taxes.

### ACTG 68C ADVANCED TAX ACCOUNTING III 3 Units
Advisory: Eligibility for MATH 220 and ESL 26.
May be taken 3 times for credit.
3 hours lecture.
Current federal income tax administration and procedures and review of Enrolled Agent Exam.

## ADAPTIVE LEARNING: COMPUTER ACCES CENTER

### ALCA 201 COMPUTER ACCESS EVALUATION 1 Unit
Formerly: ALCA 101
Non-degree applicable credit course.
Prerequisite: Medically verified disability or access limitation or permission of instructor.
Advisory: Pass/No Pass.
May be taken 6 times for credit.
3 hours laboratory.
Evaluation with emphasis on determining the efficacy and appropriateness of accommodations required for parity with peers in regular college curricula.

### ALCA 202 COMPUTER KEYBOARDING SKILLS FOR THE DISABLED .5 Unit
Formerly: ALCA 102
Non-degree applicable credit course.
Prerequisite: Medically verified disability or access limitation or permission of instructor. Not open to students with credit in CIS 102 or CAST 102.
Advisory: Pass/No Pass.
May be taken 3 times for credit.
2 hours laboratory for each .5 unit of credit.
Introduction to the keyboard covering the operation of the keyboard using the touch system and the development of correct techniques to interact more efficiently with desktop computers, or electronic communication systems. Designed for independent skill learning. Use of the IBM PC (Windows) or Macintosh.

### ALCA 203 COMPUTER ACCESS PROJECTS 2 Units
ALCA 203X FOR THE DISABLED 3 Units
ALCA 203Y 4 Units
Formerly: ALCA 112
Non-degree applicable credit course.
Prerequisite: Medically verified disability or access limitation.
Advisory: Pass/No Pass.
Any combination of ALCA 203–203Y may be taken a maximum of 6 times for credit.
6 hours laboratory for 2 units of credit.
Projects designed for the student who has completed the Computer Access Evaluation with emphasis on accommodations required for parity with peers in regular college curricula.

## ADAPTIVE LEARNING: COMMUNITY BASED

### ALCB 201 BEGINNING LIP READING .5 Unit
ALCB 201X 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALCB 201 & 201X may be taken a maximum of 6 times for credit.
1.5 hours lecture-laboratory for each .5 unit of credit.
Designed for adults with acquired, congenital or progressive hearing impairment.
Includes basic sounds of the English language and how production of basic speech sounds appears on the lips and face of the speaker. Mechanics of the ear and sound will be presented. Physiological problems related to hearing will be discussed as well as some technological solutions. Practical experience in lip reading will be provided.

### ALCB 202 INTERMEDIATE LIP READING & MANAGING .5 Unit
ALCB 202X YOUR HEARING LOSS 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Any combination of ALCB 202 & 202X may be taken a maximum of 6 times for credit.
1.5 hours lecture-laboratory for each .5 unit of credit.
Designed to meet the needs of the hearing impaired adult with acquired hearing impairment.

### ALCB 203 ADVANCED LIP READING & MANAGING YOUR .5 Unit
ALCB 203X HEARING LOSS 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability. ALCB 201, 202 or equivalent skills.
Any combination of ALCB 203 & 203X may be taken a maximum of 6 times for credit.
1.5 hours lecture-laboratory for each .5 unit of credit.
Designed to meet the needs of the hearing impaired adult with acquired hearing impairment.

### ALCB 204 POST-ADVANCED LIP READING & MANAGING .5 Unit
ALCB 204X YOUR HEARING LOSS 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability. ALCB 201, 202 or equivalent skills.
Any combination of ALCB 204 & 204X may be taken a maximum of 6 times for credit.
1.5 hours lecture-laboratory for each .5 unit of credit.
Designed for hard of hearing adults who exhibit substantial lip-reading skills and wish to upgrade and maintain their abilities.

---

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALCB 207</td>
<td>MOBILITY SKILLS FOR THE VISUALLY IMPAIRED</td>
<td>.5</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 207X</td>
<td>IMPAIRED</td>
<td>1</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 207Y</td>
<td>IMPAIRED</td>
<td>2</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 222</td>
<td>JOB SEARCH SKILLS</td>
<td>1</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 222X</td>
<td></td>
<td>2</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 222Y</td>
<td></td>
<td>2.5</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 222Z</td>
<td></td>
<td>3</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 223</td>
<td>CAREER RESOURCES</td>
<td>.5</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 223X</td>
<td></td>
<td>1</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 223Y</td>
<td></td>
<td>2</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 223Z</td>
<td></td>
<td>3</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 224</td>
<td>EMPLOYMENT ISSUES</td>
<td>.5</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 224X</td>
<td></td>
<td>1</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 224Y</td>
<td></td>
<td>2</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 224Z</td>
<td></td>
<td>3</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 229</td>
<td>WORK ADJUSTMENT FOR THE DISABLED</td>
<td>.5</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 229X</td>
<td></td>
<td>1</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 229Y</td>
<td></td>
<td>2</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 229Z</td>
<td></td>
<td>3</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 230</td>
<td>INTRODUCTION TO THE COMPUTER FOR THE DISABLED</td>
<td>2</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 231</td>
<td>CAREER PLANNING &amp; PERSONAL</td>
<td>.5</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 231X</td>
<td>ASSESSMENT</td>
<td>1</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 231Y</td>
<td></td>
<td>2</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 231Z</td>
<td></td>
<td>3</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 240</td>
<td>HEALTHIER LIVING WITH ARTHRITIS</td>
<td>1</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 401,X,Y</td>
<td>LIFE DEVELOPMENT: GOAL SETTING</td>
<td>0</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 402,X,Y</td>
<td>LEISURE MANAGEMENT</td>
<td>0</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 403,X,Y</td>
<td>CHANGING GENERATIONS</td>
<td>0</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 404,X,Y</td>
<td>CONSUMER TOPICS</td>
<td>0</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 231</td>
<td>CAREER PLANNING &amp; PERSONAL</td>
<td>.5</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 231X</td>
<td>ASSESSMENT</td>
<td>1</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 231Y</td>
<td></td>
<td>2</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 231Z</td>
<td></td>
<td>3</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 240</td>
<td>HEALTHIER LIVING WITH ARTHRITIS</td>
<td>1</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 401,X,Y</td>
<td>LIFE DEVELOPMENT: GOAL SETTING</td>
<td>0</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 402,X,Y</td>
<td>LEISURE MANAGEMENT</td>
<td>0</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 403,X,Y</td>
<td>CHANGING GENERATIONS</td>
<td>0</td>
<td>Medical verification</td>
</tr>
<tr>
<td>ALCB 404,X,Y</td>
<td>CONSUMER TOPICS</td>
<td>0</td>
<td>Medical verification</td>
</tr>
</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
ALCB 407,X,Y SOCIAL CHANGE 0 Units
Non-degree applicable non-credit course. 
Prerequisite: Medically verified disability. 
Any combination of ALCB 407–407Y may be taken a maximum of 6 times for credit. 
1 hour laboratory. 
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 408,X,Y ART APPRECIATION 0 Units
Non-degree applicable non-credit course. 
Prerequisite: Medically verified disability. 
Any combination of ALCB 408–408Y may be taken a maximum of 6 times for credit. 
1 hour laboratory. 
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 409,X,Y MUSIC APPRECIATION 0 Units
Non-degree applicable non-credit course. 
Prerequisite: Medically verified disability. 
Any combination of ALCB 409–409Y may be taken a maximum of 6 times for credit. 
1 hour laboratory. 
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 410,X,Y HEALTH ISSUES 0 Units
Non-degree applicable non-credit course. 
Prerequisite: Medically verified disability. 
Any combination of ALCB 410–410Y may be taken a maximum of 6 times for credit. 
1 hour laboratory. 
Designed for the disabled student to acquire information and develop strategies for managing the physical, social and psychological effects of illness.

ALCB 411,X,Y RELAXATION TECHNIQUES 0 Units
Non-degree applicable non-credit course. 
Prerequisite: Medically verified disability. 
Any combination of ALCB 411–411Y may be taken a maximum of 6 times for credit. 
1 hour laboratory. 
Designed for the disabled student to acquire information about and develop techniques for achieving relaxation by releasing mental and physical tension.

ALCB 412,X,Y STRESS MANAGEMENT 0 Units
Non-degree applicable non-credit course. 
Prerequisite: Medically verified disability. 
Any combination of ALCB 412–412Y may be taken a maximum of 6 times for credit. 
1 hour laboratory. 
Designed for the disabled student to acquire information about and develop techniques for achieving relaxation by releasing mental and physical tension.

ALCB 413,X,Y ANALYSIS OF CURRENT EVENTS 0 Units
Non-degree applicable non-credit course. 
Prerequisite: Medically verified disability. 
Any combination of ALCB 413–413Y may be taken a maximum of 6 times for credit. 
1 hour laboratory. 
Designed for the disabled student to increase self-expression and social interaction, and improve memory retention.

ALCB 414,X,Y USE OF COMMUNITY RESOURCES 0 Units
Non-degree applicable non-credit course. 
Prerequisite: Medically verified disability. 
Any combination of ALCB 414–414Y may be taken a maximum of 6 times for credit. 
1 hour laboratory. 
Overview of community resources with emphasis on skills for living independently.

ALCB 415,X,Y SOCIAL COMMUNICATION 0 Units
Non-degree applicable non-credit course. 
Prerequisite: Medically verified disability. 
Any combination of ALCB 415–415Y may be taken a maximum of 6 times for credit. 
1 hour laboratory. 
Designed for the disabled student to enhance self-esteem, communication and socialization skills in order to increase confidence in personal and social interactions.

ALCB 416,X,Y DRAWING & PAINTING 0 Units
Non-degree applicable non-credit course. 
Prerequisite: Medically verified disability. 
Any combination of ALCB 416–416Y may be taken a maximum of 6 times for credit. 
1 hour laboratory. 
Designed for the disabled student to enhance self-esteem, communication and socialization skills in order to increase confidence in personal and social interactions.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
ALCB 462,X–Z  VERBAL EXPRESSION  0 Units
Non-degree applicable non-credit course.
Prerequisite: Medically verified disability.
Any combination of ALCB 462–462Z may be taken a maximum of 6 times for credit.
1 hour laboratory.
Designed for the disabled student to teach techniques in verbal communication specifically to improve family, social and work-related situations.

ALCB 463,X,Y  CREATIVE WRITING  0 Units
Non-degree applicable non-credit course.
Prerequisite: Medically verified disability.
Any combination of ALCB 463–463Y may be taken a maximum of 6 times for credit.
1 hour laboratory.
Designed for the disabled student to present written autobiographical, fictional and non-fictional experiences which are shared orally for both appreciation and constructive input to enhance self-esteem, memory retention and writing ability.

ALCB 464,X,Y  POETRY & LITERATURE  0 Units
Non-degree applicable non-credit course.
Prerequisite: Medically verified disability.
Any combination of ALCB 464–464Y may be taken a maximum of 6 times for credit.
1 hour laboratory.
Designed for the disabled student to acquire knowledge and appreciation in poetry and literature with emphasis of its various forms and recall of auditory input.

ALCB 465,X–Z  CREATIVE SELF-EXPRESSION  0 Units
Non-degree applicable non-credit course.
Prerequisite: Medically verified disability.
Any combination of ALCB 465–465Z may be taken a maximum of 6 times for credit.
1 hour laboratory.
Designed for the disabled student to provide directed experiences in self-expression. Emphasis on various activities designed to enhance physical and creative expression and enable the student to develop independent creative activities through adapted drama, music, art and writing.

ALCB 481,X–Z  EXERCISE FOR THE OLDER DISABLED ADULT  0 Units
Non-degree applicable non-credit course.
Prerequisite: Medically verified disability.
Any combination of ALCB–481Z may be taken a maximum of 6 times for credit.
1 hour laboratory.
Designed for the disabled student to improve flexibility, range of movement, muscular strength and endurance.

Adaptive Learning  (650) 949-7332
www.foothill.edu/aging

GERN 70  SUCCESSFUL AGING  2 Units
2 hours lecture.
Focuses on important factors in maintaining optimal physical, mental, emotional, and spiritual health in one's later years. Intended audience: older adults and/or their family members.

GERN 71  CULTURE COUNTS: MAINTAINING POSITIVE MENTAL HEALTH WITHIN A CULTURAL CONTEXT  .5 Unit
.5 hour lecture.
This lecture and discussion class focuses on what is known about challenges to mental health and techniques of preserving positive mental health among older adults from diverse cultures. The two major challenges included are depression and stress. Differentially normal responses to losses in late life from problems in need of treatments and options for prevention and treatment are discussed.

GERN 72  CROSS-CULTURAL ISSUES IN DEATH & DYING  .5 Unit
.5 hour lecture.
The course is designed to review issues in providing appropriate cross-cultural health care, followed by specific information on palliative care at the end of life for diverse cultural populations. Religious issues are emphasized. It is appropriate for any interested students but especially appropriate for health professionals. Continued education credits will be provided for several disciplines.

GERN 73  CULTURAL ISSUES IN EMERGENCY PREPAREDNESS & OLDER ADULTS  .5 Unit
.5 hour lecture.
This course will focus on basic information on Geriatric Emergency Preparedness, Response, and Recovery (GEP-RR) specific to older adults and important cultural considerations for ethnic elders and their families. Special needs of ethnic elders with diabetes and sensory loss will be discussed with case vignettes and application exercises. The intended audiences are health care and social service providers, students, and family and community leaders who care for older adults including ethnic elders.

GERN 74  CULTURAL DIVERSITY IN LONG-TERM CARE  .5 Unit
.5 hour lecture.
Cultural dimensions and familial dimensions of long term care. This interactive day of learning will maximize the circle of inquiry into the challenges and the rich opportunities that cultural and spiritual diversity provide in long term care. Intended audience includes, but is not limited to: psychologists, nurses, social workers, activity directors, geriatric case managers, long term care providers, pastoral care providers, and older adult caregivers.

GERN 75  MENTAL HEALTH ASPECTS OF DIABETES AMONG ELDERS FROM DIVERSE BACKGROUNDS  1 Unit
1 hour lecture.
This course provides an in-depth review of the issues related to the increased risk of depression and cognitive loss or dementia among elders with diabetes from seven ethnic backgrounds in which the risk of diabetes is greater than that of older Americans. Specific modules include: an overview of mental health risks for all elders with diabetes; sections on risk, culturally appropriate assessment and management of diabetes, depression and cognitive loss among African American, American Indian, Chinese American, Filipino American, Hmong American, Japanese American, and Mexican American; and issues in emergency preparedness for ethnically diverse elders with sensory limitation due to diabetes. Particular strengths of the curriculum are its in-depth information for each population on culturally appropriate nutrition for diabetes control among elders with traditional diets, and information on traditional cultural remedies.

Adaptive Learning:
LEARNING DISABILITY

Adaptive Learning  (650) 949-7017
www.foothill.edu/al/

ALLD 201  DIAGNOSING LEARNING DISABILITIES  2 Units
ALLD 201X  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALLD 201 & 201X may be taken a maximum of 3 times for credit.
3 hours laboratory per unit of credit.
Evaluation to determine eligibility for college learning disabilities support services and accommodations. Analysis of learning strengths, weaknesses and identification of college resources.

ALLD 202  SPECIAL PROJECTS FOR LEARNING DISABLED  1 Unit
ALLD 202X  2 Units
Non-degree applicable credit course.
Prerequisite: ALLD 201; Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALLD 202 & 202X may be taken a maximum of 3 times for credit.
3 hours laboratory per unit of credit.
Designed to help students with disabilities understand the nature, causes, and types of learning differences; learn about the services available to assure success in academic, vocational and social setting; and advocate for themselves.

ALLD 203  COMPENSATORY TECHNIQUES  1 Unit
Non-degree applicable credit course.
May be taken 3 times for credit.
3 hours laboratory.
Fundamentals of learning differences with emphasis on skills development in compensatory techniques.
ALLD 204 TECHNOLOGY-BASED WRITING FOR 1 Unit
ALLD 204X STUDENTS WITH LEARNING DIFFERENCES 2 Units
Non-degree applicable credit course.
Advisory: Computer skills including basic keyboarding or consent of instructor.
Any combination of ALLD 204 & 204X may be taken a maximum of 2 times for credit.
2 hours lecture-laboratory, 1 hour terminal time for one unit of credit.
Using technology and structured writing software to plan, organize, create and edit writing projects.

ALLD 205 READING REMEDIATION 1 Unit
ALLD 205X 2 Units
Non-degree applicable credit course.
Any combination of ALLD 205 & 205X may be taken a maximum of 6 times for credit.
3 hours laboratory for each unit of credit.
A systematic and progressive remedial reading class with an emphasis on reading comprehension. Designed for ALLD students.

ALLD 206 PARAGRAPH REMEDIATION 1 Unit
ALLD 206X 2 Units
Non-degree applicable credit course.
Any combination of ALLD 206 & 206X may be taken a maximum of 6 times for credit.
3 hours laboratory for each unit of credit.
A systematic and progressive paragraph development class with an emphasis on writing concisely with correct grammar. Designed for ALLD students.

ALLD 207 BASIC MATH REMEDIATION 1 Unit
ALLD 207X 2 Units
Non-degree applicable credit course.
Any combination of ALLD 207 & 207X may be taken a maximum of 6 times for credit.
3 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
ALLD 208X 2 Units
Non-degree applicable credit course.
Any combination of ALLD 208 & 208X may be taken a maximum of 6 times for credit.
3 hours laboratory for each unit of credit.
Idenification and resolution of problems that a disabled individual deals with when mainstreaming. Designed for ALLD students.

ALLD 209 SKILL BUILDING FOR THE DISABLED 1 Unit
ALLD 209X 2 Units
Non-degree applicable credit course.
Any combination of ALLD 209 & 209X may be taken a maximum of 6 times for credit.
3 hours laboratory for each unit of credit.
Designed for ALLD students with perceptual problems who need to learn compensation strategies to achieve academic success.

ALLD 211 ENHANCING COLLEGE SUCCESS 2 Units
Non-degree applicable credit course.
Advisory: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture, 2 hours of individualized assigned activities.
Define the characteristics of a successful college student, and practice developing behaviors and attitudes that increase academic success, including familiarity with campus resources. Basic aspects of various learning differences, including learning disabilities and attention deficit/ hyperactive disorders and their impact on learning. Emphasis is on awareness and acceptance of individual learning differences. Demonstrate advocacy for learning requirements with instructional faculty. Evaluate and reinforce successful learning tools in areas such as time management, memory, processing information, and learning styles. Placement by Disability Resource Center counselors, counselors or faculty is accepted. Prior Learning Disabilities testing is not required.

ALLD 212 STRATEGIC LEARNING FOR COLLEGE SUCCESS 2 Units
Non-degree applicable credit course.
Advisory: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture, 2 hours of individualized assigned activities.
Develop specific knowledge and comprehension about information processing strengths and deficits. Learn optimal learning strategies and accommodative techniques for students with learning differences. Evaluate and reinforce successful learning tools in areas such as time management, memory, processing information, and learning styles, utilizing recent research in brain based learning theory. Demonstrate advocacy for specialized learning requirements with instructional faculty, when applicable. Placement by Disability Resource Center counselors, counselors or faculty is accepted. Prior Learning Disabilities testing is not required.

ALLD 401,X-Z STUDENT SUCCESS STRATEGIES FOR THE 0 Units
DISABLED STUDENT
Non-degree applicable credit course.
Advisory: Medically verified disability.
Any combination of ALLD 401–401Z may be taken a maximum of 6 times for credit.
1 hour laboratory.
Provides information and assistance to accommodate students’ needs and to increase student retention and success. Workshops and related follow-up activities designed to facilitate student success are provided.

ADAPTIVE LEARNING: REACH: POST-STROKE

Adaptive Learning  (650)949-6960
www.foothill.edu/al/

ALPS 200 ORIENTATION FOR THE DISABLED .5 Unit
ALPS 200X 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 200 & 200X may be taken a maximum of 2 times for credit.
1 hour lecture-laboratory for each .5 unit of credit.
Orientation of the student to the program. Discussion of disability and related issues, collection of student data, goal setting.

ALPS 201 ASSESSMENT FOR THE ACQUIRED BRAIN .5 Unit
ALPS 201X INJURED STUDENT 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Corequisite: Completion of, or concurrent enrollment in ALPS 200.
Any combination of ALPS 201 & 201X may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 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
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
May be taken 6 times for credit.
.5 hour lecture.
In-depth assessment of one or more of the following areas: cognitive, communication, psychosocial and academic awareness skills. An open-entry/open exit post stroke center course.

ALPS 203 LIVING SKILLS ASSESSMENT FOR THE DISABLED .5 Unit
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
May be taken 6 times for credit.
1.5 hours laboratory.
In-depth assessment of living skills to assist in placement and activities in other courses.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
ALPS 204  MOBILITY & FITNESS ASSESSMENT FOR THE DISABLED  .5 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass
May be taken 6 times for credit.
1.5 hours laboratory.
In depth assessment for psychomotor function.

ALPS 205  COMMUNICATION SKILLS FOR THE DISABLED  .5 Unit
ALPS 205X  1 Unit
ALPS 205Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability. Completion of, or concurrent
equipment in ALPS 200.
Advisory: Pass/No Pass.
Any combination of ALPS 205–205Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Designed to assist the student’s enhancement of speech, language and/or hearing
skills. Emphasis on post stroke and acquired brain injury.

ALPS 206  ADAPTATION SKILLS FOR THE DISABLED  .5 Unit
ALPS 206X  1 Unit
ALPS 206Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability. Completion of, or concurrent
enrollment in ALPS 200.
Advisory: Pass/No Pass.
Any combination of ALPS 206–206Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Designed to enhance adaptation skills for daily living particularly when dependence
is a factor. Emphasis on post-stroke and acquired brain injury.

ALPS 207  MOBILITY & FITNESS SKILLS FOR THE DISABLED  .5 Unit
ALPS 207X  DISABLED  1 Unit
ALPS 207Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability. Completion of, or concurrent
enrollment in ALPS 200.
Advisory: Pass/No Pass.
Any combination of ALPS 207–207Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Designed to assist the handicapped student’s enhancement of balance, mobility
and lifetime fitness skills. Emphasis on post-stroke and acquired brain injury.

ALPS 208  COPING WITH DISABILITY  .5 Unit
ALPS 208X  1 Unit
ALPS 208Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 208–208Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Designed to assist students to understand and deal with disabilities.

ALPS 209  FUNCTIONAL COMMUNICATION SKILLS FOR THE DISABLED  .5 Unit
ALPS 209X  THE DISABLED  1 Unit
ALPS 209Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability. Completion of ALPS 205.
Advisory: Pass/No Pass.
Any combination of ALPS 209–209Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Rules of language and their application in a social context. For individuals with
acquired brain injury (ABI).

ALPS 210  FUNCTIONAL SKILLS OF DAILY LIVING FOR THE DISABLED  .5 Unit
ALPS 210X  THE DISABLED  1 Unit
ALPS 210Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability. Completion of ALPS 206.
Advisory: Pass/No Pass.
Any combination of ALPS 210–210Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Enhancement of functional skills to develop and provide quality and ease to daily
living skills. An open entry, open exit course.

ALPS 211  FUNCTIONAL STRENGTH, BALANCE & COORDINATION  .5 Unit
ALPS 211X  CONDITIONING TRAINING FOR THE DISABLED  1 Unit
ALPS 211Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability. Completion of ALPS 207.
Advisory: Pass/No Pass.
Any combination of ALPS 211–211Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Designed to assist ambulatory students with acquired brain injury (ABI) with strength,

ALPS 212  EMERGENCY HOUSEHOLD PROCEDURES FOR THE DISABLED  .5 Unit
ALPS 212X  THE DISABLED  1 Unit
ALPS 212Y  1.5 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 212–212Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Designed to promote confidence and personal safety in dealing with emergency
situations.

ALPS 213  COGNITIVE RETRAINING FOR THE DISABLED  .5 Unit
ALPS 213X  1 Unit
ALPS 213Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Any combination of ALPS 213–213Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Specialized computer-assisted instruction. Emphasis on processing skills, memory
training and problem solving skills.

ALPS 214  MANAGEMENT OF PHYSICAL ASPECTS OF DISABILITIES  .5 Unit
ALPS 214X  DISABILITIES  1 Unit
ALPS 214Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 214–214Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Twenty-four hour management for the physically disabled adult. Learning to
overcome the physical difficulties following a stroke. An open-entry, open-exit
stroke center course.

ALPS 215  MOBILITY IN SITTING & STANDING FOR THE DISABLED  .5 Unit
ALPS 215X  THE DISABLED  1 Unit
ALPS 215Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS 215–215Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version
of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
ALPS 216 INDEPENDENT ACCESS SKILLS FOR POST-STROKE  .5 Unit
ALPS 216X POST-STROKE  1 Unit
ALPS 216Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS216–216Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Designed to develop competence and confidence with independent orientation and mobility skills for post-stroke. Weekly field trips to allow accessibility to community resources, while participating in skill-building.

ALPS 217 SPECIAL PROJECTS IN THE POST-STROKE PROGRAM  .5 Unit
ALPS 217X  1 Unit
ALPS 217Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS217–217Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 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
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
May be taken 6 times for credit.
1 hour lecture-laboratory.
Designed to assist the handicapped student to transition from Reach Program to other community programs and activities.

ALPS 220 CAREGIVING: LEARNING POSITIVE .5 Unit
ALPS 220X COPING SKILLS  1 Unit
ALPS 220Y  3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Advisory: Pass/No Pass.
Any combination of ALPS220–220Y may be taken a maximum of 6 times for credit.
1.5 hours laboratory for each .5 unit of credit.
Enhancement of self-esteem and socialization skills in order to increase confidence in interpersonal interactions.

ALTW 201 BASIC ENGLISH FOR THE DISABLED STUDENT  1 Unit
Formerly: ALTW 105
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Basic English skills for the disabled. Emphasis on grammar, sentence and paragraph structure and practical applications.

ALTW 202 BASIC MATH SKILLS FOR THE DISABLED STUDENT  1 Unit
Formerly: ALTW 104
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Basic math skills for the disabled. Emphasis on basic math functions, money handling and practical applications.

ALTW 203 LEARNING STYLES & STRATEGIES FOR THE DISABLED STUDENT  1 Unit
Formerly: ALTW 102
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Enhancement of self-esteem and communication skills in order to increase confidence in interpersonal interactions.

ALTW 204 COMMUNICATION SKILLS FOR THE DISABLED STUDENT  1 Unit
Formerly: ALTW 108
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Enhancement of self-esteem and communication skills in order to increase confidence in interpersonal interactions.

ALTW 205 OFFICE SKILLS FOR THE DISABLED STUDENT  2 Units
Formerly: ALTW 110
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
4 hours lecture-laboratory, 1 hour terminal time.
Practical office skills needed for successful employment. Focuses on filing systems, records management and mail handling. Designed for the disabled student.

ALTW 206 BEGINNING WORD PROCESSING FOR THE DISABLED STUDENT  3 Units
Formerly: ALTW 112
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 2 hours terminal time.
Introduction to the computer and its uses for the student with little or no computer experience. Emphasis on word processing. Designed for the disabled student.

ALTW 207 RESOURCES IN THE COMMUNITY FOR THE DISABLED STUDENT  1 Unit
Formerly: ALTW 115
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Overview of community resources for the disabled student.

ALTW 208 JOB TRAINING/INTERNSHIP FOR THE DISABLED STUDENT  1.5 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 6 times for credit.
4.5 hours laboratory.
Practical skills needed for successful employment. Emphasis on on-the-job training experiences; discussion and evaluation of one’s performance.

ALTW 209 SOCIAL SKILLS FOR THE DISABLED STUDENT  1 Unit
Formerly: ALTW 117
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 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
Formerly: ALTW 120
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
4 hours lecture-laboratory, 1 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
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 2 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.

ALTW 212 JOB SEARCH SKILLS: THE RESUME FOR THE DISABLED STUDENT 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 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
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Designed to help the students develop appropriate work behavior and attitudes. Focuses on attitudes, fears, and expectations as they relate to work.

ALTW 214 JOB SEARCH SKILLS: THE INTERVIEW FOR THE DISABLED STUDENT 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Focuses on interviewing techniques and the special problems faced by the disabled in seeking employment. The informational interview procedure will be explored through lectures and role-play.

ALTW 215 TRANSITION TO WORK FOR THE DISABLED STUDENT 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Prepare and evaluate personal, educational and vocational information for transition to work.

ALTW 216 DISABILITY & THE LAW FOR THE DISABLED STUDENT 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Understanding basic citizens' rights and responsibilities. Emphasis on the Americans with Disabilities Act.

ALTW 217 INTERMEDIATE COMPUTER APPLICATIONS FOR THE DISABLED STUDENT 3 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 2 hours terminal time.
Intermediate word processing, spreadsheet and file management skills for the disabled student. Focus on office applications needed for employment.

ALTW 218 CURRENT EVENTS FOR THE DISABLED STUDENT 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Survey of current events for the disabled student.

ALTW 219 USING THE INTERNET FOR THE DISABLED STUDENT 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Hands-on introduction and use of the Internet for the disabled student.

ALTW 220 BANKING FOR THE DISABLED STUDENT 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Banking skills for the disabled student with emphasis on checking accounts.

ALTW 222 SKILLS LABORATORY FOR THE DISABLED STUDENT .5 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
Corequisite: Concurrent enrollment in another Transition to Work Program class.
May be taken 6 times for credit.
1.5 hours laboratory.
Practical application of learning strategies, time management, organization and planning skills which are taught in Transition To Work classes.

ALTW 228 SPECIAL PROJECTS FOR THE DISABLED STUDENT 1 Unit
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 2 times for credit.
2 hours laboratory.
Activity and discussion focused on a tailored, individualized project. Designed for the disabled student.

ALTW 401 ELIGIBILITY ASSESSMENT FOR THE DISABLED STUDENT 0 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 6 times for credit.
1 hour laboratory.
Evaluation and assessment to determine eligibility for the Transition to Work (TTW) Program.

ALTW 402 TRANSITION TO WORK ORIENTATION 0 Units
Non-degree applicable credit course.
Prerequisite: Medically verified disability.
May be taken 6 times for credit.
1.5 hours laboratory.
Orientation to the Transition to Work Program and campus policies, resources and services. Formulation of the Student Educational Contract (SEC).

ADAPTIVE PHYSICAL EDUCATION
Adaptive Learning (650) 949-7017 www.foothill.edu/al/

ALAP 52 INTRODUCTION TO CONCEPTS OF PHYSICAL  .5 Unit
ALAP 52X FITNESS FOR THE DISABLED STUDENT 1 Unit
ALAP 52Y 1.5 Units
Prerequisite: Medically verified disability.
Any combination of ALAP 52–52Y may be taken a maximum of 6 times for credit.
2 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
Emphasis on enhancing functional movement, movement efficiency resulting in balance training to enhance coordination, balance and neuromuscular function.

2 hours laboratory for each .5 unit of credit.

Body mechanics and lumbar spine stabilization.

Exercises for improving body mechanics for those with musculo-skeletal impairments.

Any combination of aLaP 67 & 67X may be taken a maximum of 6 times for credit.

Prerequisite: medically verified disability.

aLaP 67

aLaP 67X

on increased range of motion and flexibility.

Individualized stretching and flexibility for the physically limited student. Emphasis on adapting and developing an exercise program to meet individual needs and goals.

3 hours laboratory for each unit of credit.

Any combination of aLaP 66 & 66X may be taken a maximum of 6 times for credit.

Prerequisite: medically verified disability.

aLaP 66

aLaP 66X

Cardiovascular endurance, muscular endurance and strength, flexibility, balance and coordination activities, motor skills, as appropriate. Emphasis on developing an exercise program to meet individual needs and goals.

2 hours laboratory, 1.5 hours individualized activity.

Any combination of aLaP 62 & 62X may be taken a maximum of 6 times for credit.

Prerequisite: medically verified disability.

aLaP 62

aLaP 62X

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.

2 hours laboratory, 1.5 hours individualized activity.

Any combination of aLaP 61 & 61X may be taken a maximum of 6 times for credit.

Prerequisite: medically verified disability.

aLaP 61

aLaP 61X

muscular strength, muscular endurance, balance, coordination and locomotion mechanics, postures and movement patterns. Development of joint mobility, relaxation, as appropriate.

2 hours laboratory for each .5 unit of credit.

Individualized swimming instruction to improve cardiovascular endurance.

Any combination of aLaP 70 & 70X may be taken a maximum of 6 times for credit. 2 hours laboratory for each .5 unit of credit.

Individualized swimming instruction to improve cardiovascular endurance.

Prerequisite: medically verified disability.

aLaP 70

aLaP 70X

Team activity and rules of play for team sports, including, but not limited to, soccer, basketball, track and field, softball.

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.

Prerequisite: medically verified disability.

aLaP 80

aLaP 80X

1 Unit

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu

ADVERTISING

Business & Social Sciences

(650) 949-7322

www.foothill.edu/bss/

ADVT 57 PRINCIPLES OF ADVERTISING 4 Units

Advisory: Not open to students with credit in BUSI 57. 4 hours lecture.

Introduction to the relationship between advertising and society, the consumer and business. Analysis of markets and direction of advertising campaigns toward them. Selection of media. Evaluation and proper use of the creative aspects of advertising. Budgets. Actual creation of an advertising campaign.

ALLIED HEALTH SCIENCES

Biological & Health Sciences

(650) 949-7249

www.foothill.edu/bio/

AHS 200 ORIENTATION TO HEALTH CARE CAREERS 3 Units

3 hours lecture.

Orientation to Foothill College health care programs preparing students to differentiate among the health care professions and to enter the profession of their choice. Defining the American health care system. Discussion of professionalism, ethics, legal issues, death and dying, medical terminology, infection control, governmental regulations, cultural diversity, and academic skills, related to allied health careers.

ANTHROPOLOGY

Business & Social Sciences

(650) 949-7322

www.foothill.edu/bss/

ANTH 1 INTRODUCTION TO PHYSICAL ANTHROPOLOGY 4 Units

4 hours lecture.

Survey of the basic processes of evolution and investigation and their application to the development of modern humans. Impact of natural selection and genetics on development of new species. Evolutionary processes behind the physical and behavioral development of primates. History of the human lineage by reconstructing the fossil record, using investigations by paleoanthropologists, geologists, biologists, and archaeologists. Relationships between contemporary biology and behavior, facilitating an understanding of the affect of them upon future humankind. [CAN ANTH 2]
ANTH 1L PHYSICAL ANTHROPOLOGY LABORATORY 1 Unit
Prerequisite: Completion of, or concurrent enrollment in ANTH 1.
1 hour lecture-laboratory, 2 hours laboratory.
Introductory laboratory course focusing on scientific methodology to explore/experiment with topics from Anthropology lecture sections. Topics include Mendelian genetics, population genetics, human variability, forensics, medical anthropology, epidemiology, hominid dietary patterns, non-human primates, primate dental and skeletal anatomy, fossil hominids, chronometric dating, environmental challenges to hominids, environmental impact of hominid behavior, general methodologies utilized in physical anthropological research, and the general study of hominids as bio-culturally adapting animals.

ANTH 2A CULTURAL ANTHROPOLOGY 4 Units
4 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
4 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
4 hours lecture.
Origin and development of culture through various stages of the Paleolithic, Mesolithic and Neolithic. Development of culture in Africa, Asia, and the New World correlated with human evolution. Techniques of tool-making, changes in tool styles, social organization, urbanization and the domestication of plants and animals.

ANTH 4 FIRST PEOPLES OF NORTH AMERICA 4 Units
4 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
4 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
4 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
4 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
Prerequisite: ANTH 1 or 8.
3 hours laboratory for each unit of credit.
Laboratory methods and techniques of archaeology, including cataloging, care and analysis of artifacts, bone recognition, and archaeological excavation.

ANTH 11 ARCHAEOLOGICAL FIELD METHODS 4 Units
Advisory: Completion of, or concurrent enrollment in ANTH 8 recommended. May be taken 2 times for credit.
1 hour lecture, 9 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: Completion of, or concurrent enrollment in ANTH 8 recommended. May be taken 3 times for credit.
6 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 34H HONORS INSTITUTE SEMINAR IN ANTHROPOLOGY 1 Unit
Formerly: ANTH 34
Prerequisite: Honors Institute participant.
1 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 6 times for credit.
1 hour lecture.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

ANTH 36 SPECIAL PROJECTS IN ANTHROPOLOGY 1 Unit
ANTH 36X 2 Units
ANTH 36Y 3 Units
ANTH 36Z 4 Units
Any combination of ANTH 36–36Z may be taken for a maximum of 6 units.
1 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
4 hours lecture.
Cultural aspects of life and death, sickness and health. Theories of illness causation from varied world cultures and American sub-cultures. Attention to theories and practices of traditional field methodology.

APPRENTICESHIP PROGRAMS
Foothill College offers apprenticeship training in the following trades: plumbing, pipefitting, refrigeration, heating and air-conditioning, sheet metal, electrician, residential electrician, sound and communication, ironworking, and elevator construction. Because of the unique relationship between on-the-job and classroom apprentice training, admission to apprenticeship classes is limited to apprentices registered with the California Division of Apprenticeship Standards. This limitation is authorized by Section 3074.3 of the State Labor Code. All classes meet at off-campus sites. For information, contact:

Plumbing, Pipefitting, Refrigeration, Heating and Air Conditioning
San Jose (408) 453-6330; Monterey (831) 633-6312

Sheet Metal
San Jose (408) 213-1712; San Francisco (415) 431-1676;
San Leandro (510) 652-9672; Monrovia (626) 431-1676;
San Mateo (650) 652-9672;
Castroville (831) 633-6151

Electrician, Residential & Inside Wireman
San Jose (408) 453-1022; San Francisco (415) 587-2500

Elevator Construction
San Francisco (415) 285-2900

Sound & Communication
San Jose (408) 453-3101; San Francisco (415) 587-2500

Ironworking
Castroville (831) 633-6151

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
APPRENTICESHIP-ELECTRICIAN

Computers, Technology & Information Systems  (650 949-7236

APEL 112  RESIDENTIAL ELECTRICAL AIR CONDITIONING & REFRIGERATION; TELEPHONE SYSTEMS  3 Units
Formerly: APRT 112
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
Advisory: Not open to students with credit in APRT 112.
6 hours lecture-laboratory.
An introduction to air conditioning and refrigeration systems used in residential applications; telephone systems. Students will study the wiring, circuitry and controls in these systems. Continued study of the National Electrical Code as it relates to current and load calculations. Review of A/C and D/C theory.

APEL 113  RESIDENTIAL ELECTRICAL SYSTEMS: BASIC SECURITY, SOLAR POWER, HOME AUTOMATION & LIFE SAFETY  3 Units
Formerly: APRT 113
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
Advisory: Not open to students with credit in APRT 113.
6 hours lecture-laboratory.
A study of residential electrical systems and installation practices. Home automation including home theater. Fundamentals of solar power systems and recommended practices. Life safety systems. Expanded study of the National Electrical Code as it relates to communication circuits, and water applications such as pools and fountains.

APEL 120  ORIENTATION TO THE ELECTRICAL TRADE  3 Units
Formerly: APRT 120
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry. MATH 105 or equivalent.
Advisory: Not open to students with credit in C E 120 or APRT 120.
5.5 hours lecture-laboratory.
Orientation to the commercial/industrial electrical industry with an introduction to electrical theory, tools, materials, wiring methods, and job skills. Review of mathematics as applied in the electrical construction trades.

APEL 121  ELECTRON THEORY; BASIC Blueprint Reading; DC Theory; NATIONAL ELECTRICAL CODE INTRODUCTION  3 Units
Formerly: APRT 121
Prerequisite: Completion of, or concurrent enrollment in APEL 120 or equivalent.
Advisory: Not open to students with credit in C E 121 or APRT 121.
5.5 hours lecture-laboratory.
Introduction to the National Electrical Code (NEC), DC theory, principles of magnetism and electromagnetism, basic blueprint reading. Discussion of job skills and wiring methods.

APEL 122  CODEOLOGY; TEST EQUIPMENT; PIPE BENDING; BLUEPRINTS  3 Units
Formerly: APRT 122
Prerequisite: Completion of, or concurrent enrollment in APEL 120.
Advisory: Not open to students with credit in C E 122 or APRT 122.
5.5 hours lecture-laboratory.
Study of the National Electrical Code, DC and AC generators, and basic fundamentals of using blueprints. Instruction on usage of test equipment and pipe bending tools. Orientation to job responsibility and safety. Review of wiring methods on-the-job.

APEL 123  AC THEORY; TRANSFORMERS; INTERMEDIATE NATIONAL ELECTRICAL CODE  3 Units
Formerly: APRT 123
Prerequisite: Completion of, or concurrent enrollment in APEL 122.
Advisory: Not open to students with credit in C E 123 or APRT 123.
5.5 hours lecture-laboratory.
Study of AC theory, transformer fundamental design and function. Expanded study of the National Electrical Code.

APEL 124  DC/AC THEORY REVIEW; ELECTRONICS; INDUSTRIAL BLUEPRINTS  3 Units
Formerly: APRT 124
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
Advisory: Not open to students with credit in C E 124 or APRT 124.
5.5 hours lecture-laboratory.
Review of DC/AC theory. Study of electronics principles and applications, and industrial blueprint reading.

APEL 125  NEC GROUNDING; OVERCURRENT PROTECTION; TRANSFORMER CONNECTIONS  3 Units
Formerly: APRT 125
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
Advisory: Not open to students with credit in APRT 125 or C E 125.
5.5 hours lecture-laboratory.
Lessons in grounding and bonding, overcurrent protection and load calculations. Identification of different transformer connections.

APEL 126  MOTORS; MOTOR CONTROL; LIGHTING PROTECTION  3 Units
Formerly: APRT 126
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
Advisory: Not open to students with credit in C E 126.
5.5 hours lecture-laboratory.
A study of different motor types and controls with emphasis on protecting the motors and the buildings they are in with lightning protection systems. Reading and interpretation of schematic drawings. Not open to students with credit in C E 126.

APEL 127  DIGITAL ELECTRONICS; MOTOR SPEED CONTROL; ADVANCED NATIONAL ELECTRICAL CODE  3 Units
Formerly: APRT 127
Prerequisite: APRT 120 or equivalent.
5.5 hours lecture-laboratory.
The use of Boolean algebra in the development of logic circuits and logic control. Introduction to the principles of motor speed control. Review of AC theory. Expanded coverage of the National Electrical Code. Not open to students with credit in C E 127.

APEL 127A  DIGITAL ELECTRONICS; MOTOR SPEED CONTROL  1.5 Units
Prerequisite: APRT 120 or equivalent.
3 hours lecture-laboratory.
Introduction to the principles of motor speed control and electric motor drives that are pertinent to apprentice electricians. Review of AC and DC theory.

APEL 128  PROGRAMMABLE LOGIC CONTROLLERS: LOW VOLTAGE SYSTEMS & HIGH VOLTAGE SYSTEMS  3 Units
Formerly: APRT 128
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
Advisory: Not open to students with credit in APRT 128 or C E 128.
5.5 hours lecture-laboratory.
Introduction to programmable controllers, alarm systems, telephone wiring, instrumentation, and high voltage testing.

APEL 129  NATIONAL ELECTRICAL CODE REVIEW  3 Units
Formerly: APRT 129
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
Advisory: Not open to students with credit in C E 129 or APRT 129.
5.5 hours lecture-laboratory.
APEL 130  OSHA SAFETY & HEALTH  1 Unit
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
2 hours lecture-laboratory.
Covers thirty (30) hours of training, required by the Occupational Health and Safety Act (OSHA) that apply toward the 30-hour Construction Industry course completion card. The course is comprised of 25 sections, each either one or two hours in length, and covers topics pertaining to regulations covered by Standard 29 CFR 1926. The successful completion of this course will help meet the Construction Industry standards established by OSHA.

APEL 135  RESIDENTIAL ELECTRICAL ORIENTATION; SAFETY & CODE INTRODUCTION  3 Units
Formerly: APRT 135
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
Advisory: Not open to students with credit in APRT 135.
Orientation to the electrical industry with a residential emphasis; on-the-job safety; identification of tools and materials; review of basic math. Introduction to the National Electrical Code.

APEL 136  RESIDENTIAL ELECTRICAL D/C THEORY; BLUEPRINT READING  3 Units
Formerly: APRT 136
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
Advisory: Not open to students with credit in APRT 136.
Introduction to D/C electrical theory and circuitry as it relates to residential installations; conductors used in electrical wiring. Course also introduces blueprint reading including architectural and engineering symbols and scale.

APEL 137  RESIDENTIAL ELECTRICAL A/C THEORY & CIRCUITRY  3 Units
Formerly: APRT 137
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
Advisory: Not open to students with credit in APRT 137.
Introduction to A/C electrical theory and circuitry as they relate to residential installations; job costing and industrial standards. Further study of the National Electrical Code focusing on codeology. Expanded development of blueprint reading skills.

APEL 138  RESIDENTIAL WIRING LAYOUT & INSTALLATION  3 Units
Formerly: APRT 138
Prerequisite: Admission to the Electrical Apprenticeship Program; current employment in the electrical trades industry.
Advisory: Not open to students with credit in APRT 138.
A study of electrical wiring methods, circuitry, and conduit installation in residential applications. Students will also practice wiring layout for residential housing. Continued study of the National Electrical Code as it relates to circuits, grounding and cable assemblies.

ARABIC
Language Arts  (650) 949-7250
www.foothill.edu/la/

ARBC 1  ELEMENTARY ARABIC  5 Units
5 hours lecture, 2 hours laboratory.
Development of elementary speaking, listening, reading and writing skills in everyday settings with Standard Arabic as the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Arabic speaking countries.

ARBC 2  ELEMENTARY ARABIC  5 Units
Prerequisite: ARBC 1
5 hours lecture, 2 hours laboratory.
Continuation of ARBC 1. Oral practice to reinforce and broaden the functions presented in ARBC 1. Greater emphasis on oral presentations. Written practice to further understanding of the underlying grammatical and syntactical structures.

ARBC 3  ELEMENTARY ARABIC  5 Units
Prerequisite: ARBC 2
5 hours lecture, 2 hours laboratory.
Continuation of ARBC 1 and ARBC 2. Intensive oral and written practice to reinforce and broaden the functions presented in ARBC 1 and in ARBC 2. Greater emphasis on presentations and student generated discussions. Written and reading practice to further understanding of the underlying grammatical and syntactical structures.

ART
Fine Arts & Communication  (650) 949-7262
www.foothill.edu/fa/

ART 1  INTRODUCTION TO ART  4.5 Units
4 hours lecture, 1.5 hours laboratory.
An overview of painting sculpture and architecture from prehistory to the present emphasizing visual elements, design, artistic media and concepts.

ART 2A  ART HISTORY  4.5 Units
4 hours lecture, 1.5 hours laboratory.
History of Western art from Prehistory to ca.600; History of Ancient Art of Islam, India, China, Japan, the Americas, and Africa. Illustrated lectures and readings. [CAN ART 2 = ART 2A+2B, CAN ART SEQ A = ART 2A+2B+2C]

ART 2AH  HONORS ART HISTORY  4.5 Units
Prerequisite: Honors Institute participant.
4 hours lecture, 1.5 hours laboratory.
History of Western art from Prehistory to ca.600; History of Ancient Art of Islam, India, China, Japan, the Americas, and Africa. Illustrated lectures and readings. The honors sections expand the primary sources for the student. in addition to the textbook, students have a reading list of sources (on reserve in the library). Lectures are more interactive and the student is expected to participate in group discussions. Exams are more exacting with an emphasis on the student being able to comfortably assimilate political, social, and economic factors into their analysis.

ART 2B  ART HISTORY  4.5 Units
4 hours lecture, 1.5 hours laboratory.
History of Western art from ca.600 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 2BH  HONORS ART HISTORY  4.5 Units
Prerequisite: Honors Institute participant.
4 hours lecture, 1.5 hours laboratory.
History of Western art from ca.600 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. The honors sections expand the primary sources for the student. in addition to the textbook, students have a reading list of sources (on reserve in the library). Lectures are more interactive and the student is expected to participate in group discussions. Exams are more exacting with an emphasis on the student being able to comfortably assimilate political, social, and economic factors into their analysis.

ART 2C  ART HISTORY  4.5 Units
4 hours lecture, 1.5 hours laboratory.
History of Western Art from ca.1600 to the 20th century; 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]
ART 2CH HONORS ART HISTORY 4.5 Units
Prerequisite: Honors Institute participant.
4 hours lecture, 1.5 hours laboratory.
History of Western Art from ca.1600 to the present; Art of the Americas after 1300;
Art of Pacific Cultures; Art of Africa in the Modern Era. The honors sections expand
the primary sources for the student. In addition to the textbook, students have a
reading list of sources (on reserve in the library). Lectures are more interactive
and the student is expected to participate in group discussions. Exams are more
exacting with an emphasis on the student being able to comfortably assimilate
political, social, and economic factors into their analysis.

ART 2D AFRICAN, OCEANIC & NATIVE AMERICAN ART 4.5 Units
4 hours lecture, 1.5 hours laboratory.
Survey of traditional arts of selected cultures from Africa, the Oceanic and Native America.

ART 2E A HISTORY OF WOMEN IN ART 4.5 Units
Advisory: Not open to students with credit in WMN 15.
4 hours lecture, 1.5 hours laboratory.
A cross-cultural examination of art works and gender issues concerning women
artists from the early Middle Ages to the 21st century.

ART 3 MODERN ART & CONTEMPORARY THOUGHT 4.5 Units
4 hours lecture, 1.5 hours laboratory.
A study of art and architecture from Impressionism to the present day emphasizing
the conceptual approach. Designed to relate contemporary artistic expression to
modern thought.

ART 4A INTRODUCTION TO DRAWING 3 Units
Advisory: Students taking this course to satisfy the AAS/AS General Education
requirement or CSU GE in humanities must complete ART 4AX.
6 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
1 hour lecture.
Examination and critique of visual arts subjects.

ART 4B INTERMEDIATE DRAWING 3 Units
Advisory: ART 4A.
6 hours lecture-laboratory.
Continuation of ART 4A with the use of color, and increased emphasis on developing
composition and content. [CAN ART 8 = ART 4A+4B]

ART 4C ADVANCED DRAWING 3 Units
ART 4CX 1 Unit
Advisory: ART 4B. Students taking this course to satisfy the CSU general
education requirement in humanities must complete ART 4CX.
May be taken 2 times for credit.
6 hours lecture-laboratory.
Continuation of ART 4B, with increased emphasis on textures spatial complexity,
and development of individual expression.

ART 4D FIGURE DRAWING 3 Units
Advisory: ART 4A, 4B recommended.
May be taken 3 times for credit.
6 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
Advisory: ART 4A & 4B recommended.
May be taken 3 times for credit.
6 hours lecture-laboratory.
Fundamentals of drawing the human head. Emphasis on use of charcoal to render
the head in light and shadow.

ART 4F LANDSCAPE DRAWING 3 Units
6 hours lecture-laboratory.
Introductory course in drawing representational landscape and natural forms.
Practice in rendering plants and landscape elements in their environment. Class
may focus on pencil, pen, ink wash and colored pencil techniques.

ART 4L DRAWING LABORATORY 1 Unit
Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in ART 4A, 4B, or 4C.
May be taken 4 times for credit.
3 hours laboratory.
Supervised studio practice in drawing projects.

ART 5A BASIC TWO-DIMENSIONAL DESIGN 3 Units
Advisory: Students taking this course to satisfy the AAS/AS General Education
requirement or CSU GE in humanities must complete ART 5AX.
6 hours lecture-laboratory.
Introduction to two 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]

ART 5AX STUDIO ART SEMINAR: DESIGN 1 Unit
Formerly ART 15AX
1 hour lecture, 1.5 hours laboratory.
Examination and critique of visual arts subjects.

ART 5B THREE-DIMENSIONAL DESIGN 3 Units
Advisory: ART 4A & 5A recommended.
6 hours lecture-laboratory.
Introduction to three-dimensional design elements and principals with an emphasis on
sculptural and structural concepts applied in projects using various materials.

ART 5L DESIGN LABORATORY 1 Unit
Corequisite: Concurrent enrollment in ART 5A or 5B.
May be taken 3 times for credit.
3 hours laboratory.
Supervised studio practice in design projects.

ART 6 COLLAGE & COMPOSITION 3 Units
Advisory: ART 4A or 5A recommended.
May be taken 3 times for credit.
6 hours lecture-laboratory.
Studio experience in structuring the elements of visual form using the exploratory
medium of collage. Development of a personal sensitivity to visual organization
and the vocabulary of art.

ART 8 BASIC PERSPECTIVE DRAWING 3 Units
Prerequisite: ART 4A
Advisory: Not open to students with credit in GRDS 75.
6 hours lecture-laboratory.
Studio experience in structuring the elements of visual form using the exploratory
medium of collage. Development of a personal sensitivity to visual organization
and the vocabulary of art.

ART 9 MATERIALS & MEDIA 3 Units
6 hours lecture-laboratory.
An introduction to basic materials and techniques of the artist with practical experience
in their simple applications. No required background or experience required.

ART 11 INTRODUCTION TO MEXICAN ART & ARCHITECTURE 4 Units
4 hours lecture.
A study of the influence of Spanish colonization and the impact on indigenous art
and architecture. Emphasis on both the transformation of identity in art as a result
of the cross cultural experience and the changing perceptions of culture on a local
and global level. Emphasis on the similarities and differences of various cultural
perspectives in art making beginning with Mexico and the United States.

ART 12 INTRODUCTION TO ASIAN ART 4.5 Units
4 hours lecture, 1.5 hours laboratory.
An introduction to the art of India, China and Japan from the Neolithic Age to the
present, covering painting, sculpture, architecture and ceramics.

ART 13 INTRODUCTION TO ISLAMIC ART 4.5 Units
4 hours lecture, 1.5 hours laboratory.
The arts and architecture of the Islamic peoples from the seventh through the
20th Century.
ART 14 AMERICAN ART 4.5 Units
4 hours lecture, 1.5 hours laboratory.
A history of the culturally diverse arts produced in North America (specifically the United States) from prehistory to the present. American art is considered thematically and chronologically, focusing on the important influences on art of nature, landscape, urbanization, gender, race, religion, ethnicity, socio-economic and political reforms, and civil and international wars.

ART 19A PAINTING 3 Units
Prerequisite: ART 19A.
6 hours lecture-laboratory.
Studio experiences in basic techniques of painting and composition using oil and/or acrylic paints. [CAN ART 10 = ART 19A+19B]

ART 19B PAINTING 3 Units
Prerequisite: ART 19A.
6 hours lecture-laboratory.
Continuation of ART 19A. Further studies in studio techniques. [CAN ART 10 = ART 19A+19B]

ART 19C PAINTING 3 Units
Advisory: ART 19B.
May be taken 2 times for credit.
6 hours lecture-laboratory.
Advanced studio experiences in techniques of painting and composition using oil and/or acrylic paints.

ART 19L PAINTING LABORATORY 1 Unit
Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in ART 19A, 19B, or 19C.
May be taken 4 times for credit.
3 hours laboratory.
Supervised studio practice in painting projects.

ART 20A COLOR 3 Units
6 hours lecture-laboratory.
A fundamental course in color and its creative application.

ART 20B COLOR 3 Units
Prerequisite: ART 20A.
6 hours lecture-laboratory.
Continued practice in creative application of color theory.

ART 35X HONORS SPECIAL PROBLEMS IN ART 1.5 Units
May be taken 6 times for credit.
4.5 hours laboratory.
Individual advanced projects in painting, drawing, sculpture, ceramics and photography.

ART 36 HISTORY OF GRAPHIC DESIGN 4 Units
Advisory: Not open to students with credit in GID 1 or GRDS 36. No Pass.
4 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, art, graphic design and illustration from cave painting to cyberspace. Interpretation of current design trends, future directions and enrichment of communication ideas.

ART 37A BEGINNING ETCHING 3 Units
Advisory: Not open to students with credit in GID 42 or GRDS 37A.
6 hours lecture-laboratory.
Beginning techniques in printmaking, including embossing, monoprinting, chine colleé, drypoint, softground, line etching, handcoloring, printing and the editioning of plates.

ART 37B INTERMEDIATE ETCHING 3 Units
Prerequisite: ART 37A.
6 hours lecture-laboratory.
Continuation of ART 37A with introduction of further techniques including aquatint, sugarliff, photographic processes, and contemporary developments in the discipline.

ART 37C ADVANCED ETCHING 3 Units
Prerequisite: ART 37B.
May be taken 2 times for credit.
6 hours lecture-laboratory.
The application and exploration of techniques introduced in ART 37A and ART 37B toward the development of personal and expressive imagery and style.

ART 39A BEGINNING SCREEN PRINTING 3 Units
Advisory: ART 4A or 5A. Not open to students with credit in GID 46 or GRDS 39A.
6 hours lecture-laboratory.
An introduction to screen printing processes, exploring the basic techniques for making cut stencil designs and drawn stencil images.

ART 39B PHOTOGRAPHIC SCREEN PRINTING 3 Units
Prerequisite: ART 39A or GID 46.
Advisory: PHOT 1 or GID 74 recommended.
6 hours lecture-laboratory.
Introduction to photographic techniques in screen printing, working with computer generated or darkroom produced transparencies in stencil making.

ART 39C SCREEN PRINTING PRACTICES 3 Units
Prerequisite: ART 39B.
6 hours lecture-laboratory.
A course for experienced students to explore combining the various techniques of screen printing in the development of images with strong formal and conceptual qualities. The printing of uniform editions and the presentation of final artwork will be discussed.

ART 39L SCREEN PRINTING LABORATORY .5 Unit
Corequisite: Concurrent enrollment in ART 39A, 39B, or 39C.
May be taken 6 times for credit.
2 hours supervised laboratory practices.
Supervised studio practice in screen printing projects.

ART 43 MOLD CONSTRUCTION FOR CERAMIC ART 3 Units
Prerequisite: ART 45A or 45B.
6 hours lecture-laboratory.
Continued practice in designing and constructing plaster molds for use in producing ceramic art works, making ceramic works from these molds and instruction in glazing.

ART 43L CERAMICS LABORATORY .5 Unit
Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in ART 43.
2 hours laboratory.
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 43.

ART 44 CERAMIC SCULPTURE 3 Units
Prerequisite: ART 45A.
Advisory: Concurrent enrollment in ART 45L or 45LX recommended.
May be taken 4 times for credit.
6 hours lecture-laboratory.
Studio practice in designing and creating original ceramic sculpture.

ART 44L CERAMICS LABORATORY .5 Unit
Advisory: Pass/No Pass.
Corequisite: Student must be currently enrolled in ART 44.
2 hours laboratory.
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 44.

ART 45A BEGINNING CERAMICS HANDBUILDING 3 Units
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 4 times for credit.
6 hours lecture-laboratory.
An introduction to techniques of handbuilding and basic glazing.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
ART 45AL CERAMICS LABORATORY .5 Unit
Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in ART 45A.
May be repeated 2 times for credit.
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45A.

ART 45AX STUDIO ART SEMINAR: DRAWING 1 Unit
1 hour lecture.
Examination and critique of visual arts subjects. [Can ART 6 = ART 45A+45AX]

ART 45B BEGINNING CERAMICS POTTER’S WHEEL 3 Units
Advisory: Concurrent enrollment in ART 45BL recommended. Students taking this course to satisfy the CSU general education requirement in humanities must complete ART 45BX.
May be repeated 4 times for credit.
6 hours lecture-laboratory.
An introduction to techniques of throwing on the potter’s wheel and basic glazing.

ART 45BL CERAMICS LABORATORY .5 Unit
Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in ART 45B.
May be repeated 4 times for credit.
2 hours laboratory.
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
1 hour lecture.
Examination and critique of visual arts subjects.

ART 45C ADVANCED CERAMICS 3 Units
Prerequisite: ART 45A and 45B.
Advisory: Concurrent enrollment in ART 45C or 45L recommended.
May be repeated 6 times for credit.
6 hours lecture-laboratory.
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45C.

ART 45CL CERAMICS LABORATORY .5 Unit
Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in ART 45C.
May be repeated 6 times for credit.
2 hours laboratory.
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45C.

ART 45D ADVANCED CERAMICS DECORATING TECHNIQUES 3 Units
Prerequisite: ART 45A or 45B.
Advisory: Concurrent enrollment in ART 45D or 45L recommended.
May be repeated 2 times for credit.
6 hours lecture-laboratory.
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45D.

ART 45DL CERAMICS LABORATORY .5 Unit
Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in ART 45D.
May be repeated 2 times for credit.
2 hours laboratory.
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
Prerequisite: ART 45A or 45B.
Advisory: Concurrent enrollment in ART 45FL recommended.
May be repeated 2 times for credit.
6 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 repeated 2 times for credit.
2 hours laboratory.
Supervised studio practice in ceramics processes, related to skills and materials being presented in ART 45F.

ART 45L CERAMICS LABORATORY .5 Unit
Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in ART 45L.
May be repeated 6 times for credit.
2 hours laboratory.
An introduction to techniques of throwing on the potter’s wheel and basic glazing.

ART 45LX 1 Unit
Advisory: Concurrent enrollment in ART 45L or 45LX recommended.

ART 47 WATERCOLOR 4 Units
Advisory: ART 4A or 5A; ART 4B, 20A recommended.
May be repeated 3 times for credit.
6 hours lecture-laboratory.
Study of transparent and opaque watercolor techniques. Emphasis on basic techniques of painting and composition.

ART 49 MONOPRINTING 3 Units
Advisory: Not open to students with credit in GID 48.
May be repeated 3 times for credit.
6 hours lecture-laboratory.
Studio experiences in printmaking methods that create one-of-a-kind fine art prints. Emphasis on artistic growth of imagery while developing technical skills with tools, media and techniques.

ART 56 INTRODUCTION TO COMPUTER GRAPHICS 4 Units
Advisory: Familiarity with computer operating systems, ART 4A or GID 70; ART 5A; PHOT 1 recommended. Not open to students with credit in GID 74 or PHOT 75.
6 hours lecture-laboratory, 3 hours laboratory.
Basic instruction using a computer for painting, drawing, image processing, photo composites and typography. Emphasis on image making and creative problem solving.

ART 66 THE ART OF SPAIN 4.5 Units
Advisory: ART 1.
4 hours lecture, 1.5 hours laboratory.
Historical survey of painting, sculpture and architecture from Roman times to the 21st Century.

ART 69 INTRODUCTION TO PRINTMAKING 3 Units
May be repeated 3 times for credit.
6 hours lecture-laboratory.
Introduction to the basic processes of blockcut, intaglio, screen, mono- and mixed-media original prints. [Can ART 20]

ART 70 KILN DESIGN, CONSTRUCTION & OPERATION 3 Units
Prerequisite: ART 45A or 45B.
Advisory: Concurrent enrollment in ART 45L or 45LX recommended.
6 hours lecture-laboratory.
Supervised studio practice in designing and building ceramic kilns.

ART 72 STUDIO ART PORTFOLIO PREPARATION 3 Units
1 hour lecture, 5 hours lecture-laboratory.
Preparation, organization, and assembly of previous and current artwork to create a cohesive studio art portfolio. This course enables students and practicing artists the preparation in creating a professional portfolio for transfer into higher institutions, career opportunities, art exhibitions, art competitions, funding, or professional practice. Documenting work, writing artist statements, practice interviews, and assembling portable portfolios are included in this course.

ART 80 MURAL MAKING: COMMUNITY ART PROJECT 3 Units
Advisory: ART 4A or 15A; ART 19A, 20A.
6 hours lecture-laboratory.
Design and production of public mural projects. Exploration of history, cultural empowerment, identity and communication through sight specific public art. Studio experience in basic painting techniques and composition.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
ART 83  SERVICE LEARNING PROJECTS  4 Units
Advisory: Completion of entry level design and software courses recommended. May be taken 3 times for credit. 6 hours lecture-laboratory, 3 hours laboratory. Fulfillment of work-related assignments for on-campus and off-campus not-for-profit organizations. Faculty coordinator helps the student apply skills learned in graphic arts courses to community-based projects. Disciplines include graphic design, photography and studio art.

ART 86  PAINTING WITH THE COMPUTER  3 Units
Advisory: Familiarity with computer operations recommended. May be taken 3 times for credit. 2 hours lecture, 3 hours laboratory. Basic instruction using computers and computer software to produce images for artistic expression and graphic design.

ART 87  ART OF THE ELECTRONIC AGE  2 Units
2 hours lecture. Study of electronic art emphasizing the use of technological equipment, lasers, video, computers, photography, digital media, multimedia and communication technology for exhibition, installation, demonstration, research and performance art.

ASTR 10A  GENERAL ASTRONOMY: SOLAR SYSTEM  5 Units
Advisory: Concurrent enrollment in ASTR 10L recommended. 5 hours lecture. Non-technical introduction to astronomy, with emphasis on the planets, moons, and smaller bodies which make up our solar system, as well as the scientific search for life elsewhere in the universe. Topics include the nature of light, the atom, and telescopes; an examination of the planets and their moons and rings, the origin of the solar system, comets, asteroids, and meteors, catastrophic events (including the impact that may have killed the dinosaurs), the search for planets and life around other stars, the challenges of space travel, and modern views on extraterrestrial contact. No background in science or math is assumed.

ASTR 10B  GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY  5 Units
Advisory: Concurrent enrollment in ASTR 10L is recommended. 5 hours lecture. Non-technical introduction to astronomy, with emphasis on stars, galaxies, and the origin and evolution of the universe. Topics covered include the nature of light, atoms, and telescopes; the birth, evolution, and death of stars (including an introduction to black holes); the Milky Way Galaxy and its development over time; normal galaxies, active galaxies, and cannibal galaxies; and the Big Bang model (of the origin and ultimate fate of the cosmos). No background in science or math is assumed.

ASTR 10BH  HONORS GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY  5 Units
Prerequisite: Honors Institute participant. Corequisite: Concurrent enrollment in ASTR 10L and 34. 5 hours lecture. A non-technical introduction to astronomy, with an emphasis on stars, galaxies, and the origin and evolution of the universe, with additional material for honors students. Topics covered include the nature of light, atoms, and telescopes; the birth, evolution, and death of stars (including an introduction to black holes); the Milky Way Galaxy and its development over time; normal galaxies, active galaxies, and cannibal galaxies; and the Big Bang model (of the origin and ultimate fate of the cosmos).

ASTR 10L  ASTRONOMY LABORATORY  1 Unit
Corequisite: ASTR 10A or 10B. 2 hours lecture-laboratory, 1 hour laboratory. A hands-on approach to the scientific method, using astronomical data and equipment. Divided into small lab groups, students will do experiments and observing projects about a range of astronomical topics, including star and constellation finding, the phases of the Moon, the reasons for the seasons, the rotation, revolution, and sphericity of the Earth, the H-R Diagram and the classification of stars, Hubble’s Law and the expansion of the universe, the questionable validity of astrology, the moons of Jupiter, etc. Each session will also include guided discussion of the meaning and importance of the data and how the particular activity fits into the larger scheme of understanding the universe and applying the scientific method.

ASTR 10L  ASTRONOMY LABORATORY  1 Unit
Corequisite: ASTR 10A or 10B. 2 hours lecture-laboratory, 1 hour laboratory. A hands-on approach to the scientific method, using astronomical data and equipment. Divided into small lab groups, students will do experiments and observing projects about a range of astronomical topics, including star and constellation finding, the phases of the Moon, the reasons for the seasons, the rotation, revolution, and sphericity of the Earth, the H-R Diagram and the classification of stars, Hubble’s Law and the expansion of the universe, the questionable validity of astrology, the moons of Jupiter, etc. Each session will also include guided discussion of the meaning and importance of the data and how the particular activity fits into the larger scheme of understanding the universe and applying the scientific method.

ASTR 105  SEMINAR IN HANDS-ON ASTRONOMY  1 Unit
Corequisite: Completion of, or concurrent enrollment in ASTR 10A or 10B. 1 hour lecture. A seminar in directed readings, discussions and projects in astronomy. Specific topics to be determined by the instructor.

ASTR 190  DIRECTED STUDY  5 Units
ART 190X  1 Unit
ART 190Y  1.5 Units
ART 190Z  3 Units
Non-degree applicable credit course. Advisory: Pass/No Pass. Any combination of ASTR 190–190Z may be taken for a total of 18 units for credit. 1.5 hours laboratory. For students who desire or require additional help in attaining comprehension and competency in learning skills.

ASTR 36  SPECIAL PROJECTS IN ASTRONOMY  1 Unit
ASTR 36X  2 Units
ASTR 36Y  3 Units
Advisory: Previous experience in astronomy is optional. Any combination of ASTR 36–36Y may be taken for a maximum 18 units of credit. 3 hours laboratory. A seminar in directed reading and discussion in astronomy. An opportunity to do astronomical research and observing at Foothill College Observatory.

ASTR 100  SEMINAR IN HANDS-ON ASTRONOMY  1 Unit
Corequisite: Completion of, or concurrent enrollment in ASTR 10A or 10B. 1 hour lecture. A seminar in directed readings, discussions and projects in astronomy. Specific topics to be determined by the instructor.

ASTR 190  DIRECTED STUDY  5 Units
ART 190X  1 Unit
ART 190Y  1.5 Units
ART 190Z  2 Units
Advisory: Pass/No Pass. Any combination of ASTR 190–190Z may be taken for a maximum 18 units for credit. 1.5 hours laboratory. For students who desire or require additional help in attaining comprehension and competency in learning skills.

ASTR 36  SPECIAL PROJECTS IN ASTRONOMY  1 Unit
ASTR 36X  2 Units
ASTR 36Y  3 Units
Advisory: Previous experience in astronomy is optional. Any combination of ASTR 36–36Y may be taken for a maximum 18 units of credit. 3 hours laboratory. A seminar in directed reading and discussion in astronomy. An opportunity to do astronomical research and observing at Foothill College Observatory.

ASTR 190  DIRECTED STUDY  5 Units
ART 190X  1 Unit
ART 190Y  1.5 Units
ART 190Z  2 Units
Advisory: Pass/No Pass. Any combination of ASTR 190–190Z may be taken for a maximum 18 units for credit. 1.5 hours laboratory. For students who desire or require additional help in attaining comprehension and competency in learning skills.

ATHLETICS
See Physical Education.

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

BIOI 1A  PRINCIPLES OF CELL BIOLOGY  6 Units
Prerequisite: CHEM 1A. Advisory: Students taking the biology majors’ sequence (1A, 1B, 1C, 1D) are strongly advised to take the sequence in order and in its entirety. 4 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory, 1 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 BIOI 2, CAN BIOL SEQ A = BIOI 1A+B+1C]

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
Mendelian genetics, and population genetics; factors affecting human diversity

An introduction to the nature of human inheritance. The molecular basis of inheritance, methods of science and basic principles of biology. Special emphasis on genetics, learning.

4 hours lecture, 1 hour lecture-laboratory, 4 hours laboratory and 1 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.

4 hours lecture.

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

4 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.

5 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.

5 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.

4 hours lecture.

An 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.

4 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.

4 hours lecture.

An 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.

4 hours lecture.

An introduction to the structure and physiological processes of plants and animals. Transport systems, reproduction, digestion, gas exchange, regulation of the internal environment, responses to external stimuli, nervous systems, hormones, and locomotion.

1 hour lecture-laboratory, 2 hours laboratory, 1 hour collaborative learning.

Advanced readings, research and/or laboratory projects in Biology. Specific topics designed during one quarter and performed during a second quarter.

3 hours laboratory.

Advanced readings, research and/or laboratory projects in Biology. Specific topics designed during one quarter and performed during a second quarter.

3 hours laboratory.

Basic human anatomy and physiology. Emphasis on integration of systems and homeostatic mechanisms. Physical and chemical basis of life, histology and reproductive system.

4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory, 1 hour collaborative learning.

An 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.

4 hours lecture.

An 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.

4 hours lecture.

An 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.

4 hours lecture.

An 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.

4 hours lecture.

An 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.

4 hours lecture.

An 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.

4 hours lecture.

An 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.

4 hours lecture.

An 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.

4 hours lecture.

An 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.

4 hours lecture.

An 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.

4 hours lecture.

An 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.

4 hours lecture.

An 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.

4 hours lecture.
4 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory, 1 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.

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.
4 hours lecture.
Introduction to the medical aspects of nutrition. Biological function and chemical classification of nutrients. Nutritional needs throughout the lifespan. Effects of nutritional deficiencies and excesses. Recommended nutrient intakes and the role of diet in the development of chronic disease.

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.
4 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 1 Unit
Prerequisite: Laboratory experience (high school and/or professional experience).
Advisory: High school biology, chemistry, algebra recommended. BIOL 64 and BTEC 64 are interchangeable.
May be taken 2 times for credit.
2 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 gel transfers. 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 1 Unit
Prerequisite: Laboratory experience (high school and/or professional experience).
Advisory: High school biology, chemistry, algebra recommended. BIOL 65 and BTEC 65 are interchangeable.
May be taken 2 times for credit.
2 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
Prerequisite: High school biology, chemistry and algebra; laboratory experience. Advisory: BIOL 66 and BTEC 66 are interchangeable. May be taken 2 times for credit.
4 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
Prerequisite: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra.
Advisory: BIOL 67 and BTEC 67 are interchangeable.
May be taken 2 times for credit.
2 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 3 Units
Prerequisite: Laboratory experience (high school, college and/or professional). Advisory: BIOL 69 and BTEC 69 are interchangeable. High school chemistry, biology, algebra.
May be taken 2 times for credit.
6 hours lecture-laboratory.
Introduction to general mammalian cell culture techniques, including media preparation, sterile technique, freezing, thawing, and maintaining primary cells and cell lines. Theoretical considerations will include purpose and selection of media components, setting up and maintaining a sterile cell culture environment, and controlling contamination. Students will gain practical experience working in the laminar flow hood, counting cells, isolating cells from a primary source, and maintaining healthy adherent and suspension cells in culture. Emphasis will also be given to proper care and use of equipment used in a cell culture facility: laminar flow hoods, CO2 incubators, water baths, and the inverted microscope.

BIOL 71 DNA SEQUENCING & BIOINFORMATICS: BASIC LABORATORY TECHNIQUES 2 Units
Prerequisite: Laboratory experience (high school and/or professional experience).
Advisory: BIOL 71 and BTEC 71 are interchangeable. High school biology, chemistry, algebra recommended.
May be taken 2 times for credit.
4 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
Prerequisite: High school biology, chemistry and algebra; laboratory experience, successful completion of BTEC 66 or equivalent experience. Advisory: BIOL 72 and BTEC 72 are interchangeable.
4 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
Biol 73  Histotechnology in Research  1 Unit
Prerequisite: Laboratory experience (high school and/or professional experience).
Advisory: Biol 73 and Btec 73 interchangeable. High school biology, chemistry, algebra recommended.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Introduction to basic histotechnology techniques, including solution preparation, fixation, processing, embedding, thin and thick sectioning, and staining. Learn how histology aids in disease detection and explore how it is used as a tool in research.

Biol 74  Overview of Regulatory Affairs  1 Unit
Advisory: Biol 74 and Btec 74 are interchangeable.
May be taken 2 times for credit.
2 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 78  Polymerase Chain Reaction: Basic Laboratory Technique  1 Unit
Prerequisite: Laboratory experience (high school and/or professional); high school chemistry, biology, and algebra.
Advisory: Biol 78 and Btec 68 are interchangeable.
May be taken 2 times for credit.
2 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 80  Monoclonal Antibody Production - Hybridoma Technology  1 Unit
Prerequisite: Laboratory experience (high school, college and/or professional); high school chemistry, biology, and algebra.
Advisory: Biol 80 and Btec 70 are interchangeable. Btec 69, 53A, animal cell culture experience. High school chemistry, biology, algebra.
May be taken 2 times for credit.
2 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.

Biol 85  Immunobiotechnology Basic Laboratory Theory  2 Units
Prerequisite: Laboratory experience.
Advisory: Biol 85 and Btec 75 are interchangeable. High school biology, chemistry, and algebra recommended.
May be taken 2 times for credit.
2 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.

Biol 86  Introduction to Microarray Data Analysis  2 Units
Advisory: Btec 51A and MATH 10 or their equivalents strongly recommended.
Biol 86 and Btec 76 are interchangeable.
May be taken 2 times for credit.
2 hours lecture, 2 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. This course is organized in modules, each of which deals with a specific topic in gene expression analysis.

Biol 90a  Biology Experiential Internship  4 Units
Prerequisite: Acceptance into the FHDA Internship Program.
May be taken 6 times for credit.
12 hours laboratory.
Off-campus supervised experiential education of Biology students in laboratory or technology support environment. Opportunity for practical application of knowledge, skills and abilities acquired in Biology and related course work. Opportunity for additional hands-on training in all aspects of biologically laboratory related and/or technology support skills. Exposure to varied protocols, methodologies and practices in a professional research environment.

Biol 90b  Biology Extended Experiential Internship  6 Units
Prerequisite: Acceptance into the FHDA Internship Program.
May be taken 2 times for credit.
18 hours laboratory.
Off-campus supervised experiential education of Biology students in laboratory or technology support environment. Opportunity for practical application of knowledge, skills and abilities acquired in Biology and related course work. Opportunity for additional hands-on training in all aspects of biologically laboratory related and/or technology support skills. Exposure to varied protocols, methodologies and practices in a professional research environment.

Biol 190  Directed Study  0.5 Unit
Biol 190x  1 Unit
Biol 190y  1.5 Units
Biol 190z  2 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass.
Any combination of Biol 190–190Z may be taken for a maximum of 12 units.
One half-hour lecture and 1.5 hours laboratory.
Instructor permission required. For students who desire or require additional help in attaining comprehension and competency in learning skills.

Biotechnology

Biological & Health Sciences  (560) 949-7249
www.foothill.edu/bio/programs/biotech/

Btec 50  Careers in Biotechnology/ Bioinformatics  2 Units
Advisory: Basic knowledge of biology is recommended. Background in computer technology, especially knowledge and skills for navigating Web resources, is useful.
2 hours lecture, 2 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.

Btec 51a  Cell Biology for Biotechnology  3 Units
3 hours lecture.
Introduction to cell biology. Topics to include cellular and subcellular structure, cellular metabolism, DNA replication, transcription and translation.

Btec 51al  Cell Biology Laboratory for Biotechnology  5.5 Units
Prerequisite: High school algebra or MATH 220; 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; completion of, or concurrent enrollment in BTEC 51A.
Corequisite: Concurrent enrollment in BTEC 51A.
2 hours lecture, 10 hours laboratory.
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
3 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 5.5 Units
Prerequisite: BTEC 51AL; completion of, or concurrent enrollment in BTEC 52A. 2 hours lecture, 10 hours laboratory. 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
Prerequisite: BTEC 52A. 3 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 LABORATORY FOR BIOTECHNOLOGY 5.5 Units
Prerequisite: BTEC 52AL. Corequisite: Concurrent enrollment in BTEC 53A. 2 hours lecture, 10 hours laboratory. Introduction to the laboratory biological techniques and methods used in immunology. Topics to include the use of antibodies (ELISA, Western blot, immunofluorescence) in the lab, mammalian cell culture, and antibody production using hybridoma technology. Laboratory exercises will also reinforce scientific method, lab safety, importance of laboratory notebooks, applied problem solving, and fundamentals of instrumentation.

BTEC 54 BIOTECHNOLOGY EXTERNSHIP 4 Units
Prerequisite: Completion of BTEC 52A & 52AL. Corequisite: Concurrent enrollment in BTEC53A & 53AL. 24 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
3 hours lecture. Lab safety issues needed to function in a laboratory setting. This is to include biological hazards, chemical hazards, and radiological hazards and radiological hazards in the context of NHC/DCC guidelines and OSHA regulations.

BTEC 56X DIRECTED STUDY 1 Unit
BTEC 56Y 2 Units
BTEC 56Z 3 Units
Advisory: Pass/No Pass. Any combination of BTEC 56X–56Z may be taken for a maximum of 9 units. 3 hours laboratory for each unit of credit. Advanced research and/or project in biotechnology. The specific topic must be determined in consultation with the instructor.

BTEC 57A VIROLOGY FOR BIOTECHNOLOGY 3 Units
Prerequisite: BTEC 52A. Corequisite: Concurrent enrollment in BTEC 53A 3 hours lecture. Introduction to virology. Topics to include the structure and function of viruses, viral diseases, vaccines, cancer, and the use of viruses in the biotechnology industry.

BTEC 58 PRINCIPLES OF BIOTECHNOLOGY/BIOMANUFACTURING 4 Units
Prerequisite: BTEC 51A. 4 hours lecture. This course covers topics important in the development, production, recovery, and analysis of products produced by biotechnology. The course traces the path of a drug or biologic from the cell through the production facility, the final processing, and into the human body. It discusses the growth characteristics of the organisms used to produce pharmaceutical proteins, the techniques used in product recovery, and the techniques used in product analysis.

BTEC 59 BUSINESS & REGULATORY PRACTICES IN BIOTECHNOLOGY/BIOMANUFACTURING 4 Units
4 hours lecture. This course examines how basic business principles and sound manufacturing procedures assure the quality and safety of a product as the manufacturing team moves a product down the biotechnology production pipeline. It explores the role of governmental oversight and regulation during the discovery, development, and manufacturing of new products produced by biotechnology.

BTEC 61 MICROBIAL BIOTECHNOLOGY 4.5 Units
Prerequisite: BTEC 51A & 51AL. 2 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory, 1 hour collaborative learning. Introduction to microbiology with an emphasis on a practical approach to the utilization of microorganisms in biotechnology. Topics to include the current status of microbial biotechnology and potential contributions within a variety of fields, the genetic and biochemical diversity of microorganisms, their classification and metabolism, methods used to create engineered microorganisms, and the most widely exploited attributes of engineered microorganisms.

BTEC 62 CELL CULTURE & PROTEIN RECOVERY/BIOMANUFACTURING 6 Units
Prerequisite: BTEC 51A. 2 hours lecture, 9 hours laboratory. This course teaches the skills needed to serve as a technician in biotechnology production. Students grow and monitor bacterial, yeast, and mammalian cells on a laboratory scale that emulates the large-scale production used in industry. Students will become familiar with the cleaning, sterilization, aseptic inoculation, operation, and monitoring of fermenters and bioreactors. Students then recover and purify proteins produced by those cell cultures. They recover and purify proteins using centrifugation, ultrafiltration, and chromatography techniques. The course emphasizes the use of current Good Manufacturing Practices (cGMP), and students gain experience following Standard Operating Procedures (SOP).

BTEC 63 BIOTECHNOLOGY INSTRUMENTATION: QUALITY CONTROL ENGINEERING 6 Units
Prerequisite: BTEC 51A. 2 hours lecture, 9 hours laboratory. This course familiarizes students with small scale laboratory practices, both those used in a research laboratory and those used by a quality control department in industry, to analyze the quality of a cell culture process and the purity of protein products produced by cells in culture. The course emphasizes the use of Good Laboratory Practices (GLP) in these analyses. Students will gain experience in techniques used to analyze nucleic acids and in the genetic engineering of cells. They will also gain experience with the common assays used in Quality Control including electrophoresis, High Performance Liquid Chromatography (HPLC), Enzyme Linked Immunosorbant Assay (ELISA), and Polymerase Chain Reaction (PCR) to test products generated using cell culture.

BTEC 64 PROTEIN ELECTROPHORETIC SYSTEMS: BASIC LABORATORY TECHNIQUE 1 Unit
Prerequisite: Laboratory experience (high school and/or professional experience). Advisory: BTEC 64 and BIOL 64 are interchangeable. High school biology, chemistry, and algebra recommended. May be taken 2 times for credit. 2 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 electroscreens. 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
BTEC 65  NUCLEIC ACIDS ELECTROPHORETIC SYSTEMS:  1 Unit
BASIC LABORATORY TECHNIQUE
Prerequisite: Laboratory experience (high school and/or professional experience).
Advisory: BTEC 65 and BIOL 65 are interchangeable. High school biology, chemistry, and algebra recommended.
May be taken 2 times for credit.
2 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 several techniques, and their practical applications. Techniques covered will include gel electrophoresis, capillary electrophoresis and blotting. Practical experience with reagents and instrumentation will be emphasized. Students will follow established protocols, and demonstrate an understanding of supporting routine operations and standard protocols.

BTEC 66  HPLC: BASIC LABORATORY TECHNIQUE  2 Units
Prerequisite: High school biology, chemistry and algebra; laboratory experience.
Advisory: BTEC 66 and BIOL 66 are interchangeable.
May be taken 2 times for credit.
4 hours lecture-laboratory.
Understanding, using and performing HPLC in a research or industrial setting. Includes the theory and mechanisms of molecules and chemistry, the wide range of research, analytical and preparative uses, instrumentation used for HPLC, practical experience with reagents and instrumentation, following established protocols, calibrating and maintaining the instrumentation.

BTEC 67  IMMUNOLOGICAL ASSAYS  1 Unit
Prerequisite: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra.
Advisory: BTEC 67 and BIOL 67 are interchangeable.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Understanding and performing immunological assays. Includes the theory, molecular basis, and research/diagnostic applications of several techniques. Techniques covered include, direct, indirect, sandwich, and quantitative ELISAs, and Western blotting. Practical experience with reagents (selection of conjugated antibodies, detection systems) and instrumentation (microtiter plate reader, polyacrylamide gel electrophoresis apparatus, transfer apparatus) will be emphasized.

BTEC 68  POLYMERASE CHAIN REACTION: BASIC LABORATORY TECHNIQUE  1 Unit
Prerequisite: Laboratory experience (high school, college and/or professional); high school chemistry, biology, algebra.
Advisory: BTEC 66 and BIOL 78 are interchangeable.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Understanding, using and performing PCR in a research or industrial setting. Includes the molecular and physical basis of the technique, mechanisms and practical (research and analytical) applications, RT-PCR, product separation and detection, thermocyclers, primers, practical experience with reagents and instrumentation for PCR, following established protocols.

BTEC 69  BASIC MAMMALIAN CELL CULTURE TECHNIQUES  3 Units
Prerequisite: Laboratory experience (high school, college and/or professional).
Advisory: High school chemistry, biology, algebra recommended.
May be taken 2 times for credit.
6 hours lecture-laboratory.
Introduction to general mammalian cell culture techniques, including media preparation, sterile technique, freezing, thawing, and maintaining primary cell cultures and cell lines. Theoretical considerations will include purpose and selection of media components, setting up and maintaining a sterile cell culture environment, and controlling contamination. Students will gain practical experience working in the laminar flow hood, counting cells, isolating cells from a primary source, and maintaining healthy adherent and suspension cells in culture. Emphasis will also be given to proper care and use of equipment used in a cell culture facility: laminar flow hoods, CO2 incubators, water baths, and the inverted microscope.

BTEC 70  MONOCLONAL ANTIBODY PRODUCTION:  1 Unit
HYBRIDOMA TECHNOLOGY
Prerequisite: 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 2 times for credit.
2 hours lecture-laboratory.
Production of monoclonal antibodies by hybridoma technology. Course will include theoretical discussion of therapeutic and diagnostic uses of antibodies, sterile technique, hybridoma production, selection, and cell cloning. Students will gain practical experience of hybridoma technology by performing a cell fusion, screening and selecting positive hybridomas, and cloning cells to isolate monoclonal antibodies. A brief discussion of the ELISA (enzyme-linked immunosorbent assay) will be included.

BTEC 71  DNA SEQUENCING & BIOINFORMATICS BASIC LABORATORY TECHNIQUES  2 Units
Prerequisite: Laboratory experience (high school and/or professional experience).
Advisory: BTEC 71 and BIOL 71 are interchangeable. High school biology, chemistry, and algebra recommended.
May be taken 2 times for credit.
4 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 72  HPLC: BASIC LABORATORY TECHNIQUE II  2 Units
Prerequisite: High School biology, chemistry and algebra; laboratory experience, successful completion of BTEC 66 or equivalent experience.
Advisory: BTEC 72 and BIOL 72 are interchangeable.
4 hours lecture-laboratory.
Understanding, using and performing HPLC in a research or industrial setting. Includes the theory and mechanisms of molecules and chemistry, the wide range of research, analytical and preparative uses, instrumentation used for HPLC, practical experience with reagents and instrumentation, following established protocols, calibrating and maintaining the instrumentation.

BTEC 73  HISTOTECHNOLOGY IN RESEARCH  1 Unit
Prerequisite: Laboratory experience (high school and/or professional experience).
Advisory: BTEC 73 and BIOL 73 are interchangeable. High school biology, chemistry, algebra recommended.
May be taken 2 times for credit.
2 hours lecture-laboratory.
Introduction to basic histotechnology techniques, including solution preparation, fixation, processing, embedding, thin and thick sectioning, and staining. Learn how histology aids in disease detection and explore how it is used as a tool in research.

BTEC 74  OVERVIEW OF REGULATORY AFFAIRS  1 Unit
Prerequisite: BTEC 74 and BIOL 74 are interchangeable.
May be taken 2 times for credit.
2 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
Prerequisite: Laboratory experience.
Advisory: BTEC 75 and BIOL 75 are interchangeable. High school biology, chemistry, and algebra recommended.
May be taken 2 times for credit.
2 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 76 INTRODUCTION TO MICROARRAY DATA ANALYSIS
Advisory: BTEC 51A and MATH 10 or their equivalents strongly recommended. BIOL 86 and BTEC 76 are interchangeable. May be taken 2 times for credit. 2 hours lecture, 2 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. This course is organized in modules, each of which deals with a specific topic in gene expression analysis.

BTEC 190 DIRECTED STUDY

Advisory: Pass/No Pass
Any combination of BTEC 190–190Z may be taken for a maximum of 12 units. .5 hour lecture, 1.5 hours laboratory. For students who desire or require additional help in attaining comprehension and competency in learning skills.

BUSINESS

Business & Social Sciences

BUSI 18 BUSINESS LAW I

5 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 hours lecture.
Law of sales, warranty and product liability, partnerships, corporations, personal property, and bailments. The Uniform Commercial Code as related to negotiable instruments and secured transactions, and creditor-debtor rights.

BUSI 22 PRINCIPLES OF BUSINESS

4 hours lecture.
Examination of the principles and functions of business and the objectives and operations of the corporate and small business managerial decision-making process; its relations to consumers and stakeholders and its global orientation. Includes focus on the economic, political, legal, social environments of business and corporate ethics and social responsibility.

BUSI 34H HONORS INSTITUTE SEMINAR IN BUSINESS

Formerly: BUSI 54
Prerequisite: Honors Institute participant. 1 hour lecture.
A seminar in directed readings, discussions, and projects in business. Specific topics to be determined by the instructor.

BUSI 53 SURVEY OF INTERNATIONAL BUSINESS

Advisory: Not open to students with credit in BUSI 53.
4 hours lecture.
Introduction to the global commercial community, theory and practice. Exploration of trade and development with the Pacific Rim, Eastern/Western Europe, Third World and developing nations. Major economic, social, political, cultural forces directing the competitive business environment. Examination of the full range of international commercial activities, marketing, logistics, research, risk analysis, and global corporate ethics and social responsibility.

BUSI 57 PRINCIPLES OF ADVERTISING

Advisory: Not open to students with credit in ADVT 57.
4 hours lecture.
Introduction to the relationship between advertising and society, and consumer and business. Analysis of markets and direction of advertising campaigns toward them. Selection of media. Evaluation and proper use of the creative aspects of advertising. Budgets. Actual creation of an advertising campaign.

BUSI 58 SURVEY OF INTERNATIONAL MARKETING

Advisory: Not open to students with credit in BUSI 58.
4 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 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 hours lecture.

BUSI 62 PRINCIPLES OF SALESMANSHIP

3 hours lecture.
The principles and techniques of selling ideas, products, services. Focus on persuasive activities, buying behavior, communication, ethics. Combines an emphasis on the art of selling with providing effective customer service.

BUSI 64 SPECIAL PROJECTS IN BUSINESS

1 Unit

BUSI 64X 2 Units
BUSI 64Y 3 Units
BUSI 64Z 4 Units
Any combination of BUSI 64–64Z may be taken for a maximum of 6 units.
1 hour lecture.
Advanced readings, research, and/or project in business. Specific topics determined in consultation with instructor.

BUSI 70 BUSINESS & PROFESSIONAL ETHICS

4 Units
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 hours lecture.
Social and moral dilemmas encountered in business and professional lives. Exploration and analysis of the ongoing conflicts between personal value systems, expected codes of behavior, and standard operating procedures in the workplace. Special attention given to an examination of the major philosophical schools of ethics and how their specific theories may be applied to the concrete business cases and contemporary management issues.

BUSI 90A PRINCIPLES OF MANAGEMENT

4 Units
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 hours lecture.
Introduction to the study of the principles and functions of business management as an important part of the social, political and economic environment. The following functional areas of management include: Planning and Organizing, Control and Monitoring, Strategy and Leadership, Legal and Ethical issues affecting business today.

BUSI 91L INTRODUCTION TO BUSINESS INFORMATION PROCESSING

Formerly: BUSI 10
4 Units
3 hours lecture, 2 hours laboratory.
Knowledge and understanding of business uses of computer and information processing. Introduction to computer hardware and software and popular operating systems. Hands-on experience in the use of word processing software, spreadsheet software, presentation graphics software, database software and communications software.
BUSI 92  
**FINANCIAL PLANNING PRACTICES**  
4 Units  
4 hours lecture.  
Examination of financial and retirement planning, mutual funds, real estate, bonds, cash equivalents, gold, stock, tax-free income, sources of investment help, advisory services.

BUSI 95  
**ENTREPRENEURSHIP - SMALL BUSINESS MANAGEMENT**  
4 Units  
4 hours lecture.  
Creating, managing and profiting from a small business. For potential or present entrepreneurs. Emphasis on organization and operation of a small business including problems of raising capital, establishing an effective marketing plan, and directing and motivating employees.

BUSI 95E  
**SMALL BUSINESS EXPORT & IMPORT**  
3 Units  
Advisory: Not open to students with credit in BUS 95E.  
3 hours lecture.  
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.

BUSI 97  
**MANAGEMENT SEMINAR**  
.5 Unit  
BUSI 97X  
1 Unit  
BUSI 97Y  
1.5 Units  
BUSI 97Z  
3 Units  
Advisory: Pass/No Pass.  
Any combination of BUSI 97–97Z, may be taken for a maximum of 6 units.  
1 hour lecture for each unit of credit.  
In-depth exposure to specific management theories and processes and the various leaders in the field.

BUSI 99A  
**SUPERVISED BUSINESS INTERNSHIPS**  
1 Unit  
Prerequisite: Student must be working in a job related to their declared major.  
Corequisite: Concurrent enrollment in at least 12 units.  
May be taken 6 times for credit.  
3 hours laboratory for each unit of credit.  
The Internship Program is an educational experience that gives students the opportunity to apply classroom learning to the business world. Working part-time/full-time, students receive hands-on experience where they improve their knowledge and skills in a workplace environment. Legal right to work in the United States is required.

BUSI 102  
**PRACTICAL PERSONAL FINANCE**  
1 Unit  
2 hours lecture-laboratory.  
How to structure portfolios of stocks, bonds, mutual funds, real estate, cash equivalents. Discussions of tax-free income, gold, collectibles, and other investment instruments. Examination of financial, estate and retirement planning, sources of investment help, advisory services, asset allocation and tax and investment strategies. Expert guest speakers employed throughout the course.

BUSI 120  
**DISPUTE RESOLUTION & MEDIATION**  
3.5 Units  
3.5 hours lecture.  
Non-degree applicable credit course.  
Principles and process of mediation with role-play practice in community, business and workplace cases. Evolution and comparison of alternative dispute resolution processes. Skill development for effective communication, relationship building, interest-based negotiation and problem-solving.

BUSI 131B  
**HOW TO START A HOME-BASED BUSINESS**  
.5 Unit  
.5 hour lecture.  
Exploration of unique needs for small businesses started and operated from the home. Topics covered include information about licenses, taxes, resolution of lifestyle and image.

BUSI 133A  
**STARTING A SMALL BUSINESS**  
1 Unit  
1 hour lecture.  
Introductory class providing basics necessary for start-up of a small business including local, state, and federal regulatory requirements; pros and cons of various options for structuring business; selecting a business location; simple structuring of marketing and business plans; developing and understanding a feasibility study; and basics of managing and operating a small business.

BUSI 133E  
**SMALL BUSINESS MARKETING, RESEARCH & PLANNING**  
1 Unit  
Advisory: Pass/No Pass.  
1 hour lecture.  
Explore the basics necessary to develop a successful marketing strategy and business plan. Includes analysis of customer, competition, pricing, marketing strategies, promotional and business plans.

**BUSINESS OFFICE TECHNOLOGY**

Computers, Technology & Information Systems  
(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 B T 51B.  
2 hours lecture-laboratory.  
Develop and master correct keyboarding skills and techniques on the microcomputer using the touch system.

B T 51B  
**PROFESSIONAL KEYBOARDING II (BEGINNING)**  
1 Unit  
Prerequisite: B T 51A or ability to typewrite/keyboard straight copy at a minimum rate of 30 wpm for two minutes with two or fewer errors.  
2 hours lecture-laboratory.  
Continued development of keyboarding competencies; emphasis on improving 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  
2 hours lecture-laboratory.  
Development of proofreading and editing skills in preparation for office occupations. Hands-on experience with proofreading software.

B T 59  
**INTEGRATED BUSINESS COMMUNICATION**  
5 Units  
Formerly: B T 59A & B T 59B  
Advisory: Satisfactory completion of ENGL 101 or ESL 25, or English placement test level of ENGL 1A or ESL 26. Not open to students with credit in B T 59A and 59B.  
4 hours lecture, 4 hours terminal time.  
Integrates the review and refinement of basic English communication in the business setting. Includes business focused content, practice in grammar, punctuation, word usage skills and communication techniques as well as research and techniques for larger written documents and presentations. Skills developed will be practiced using business computer applications in Word, PowerPoint and Excel.

B T 93U  
**B T EXPERIENTIAL INTERNSHIP**  
3 Units  
B T 93V  
4 Units  
B T 93W  
6 Units  
May be taken 6 times for credit.  
9 hours laboratory.  
Off-campus supervised experiential education of BT students in office administration or technology support. Opportunity for practical application of knowledge, skills and abilities acquired in B T and related course work. Opportunity for additional hands-on training in all aspects of office administration and/or technology support. Exposure to varied protocols, methodologies and practices in a professional working environment.

**CAREER LIFE PLANNING**

Counseling & Student Services  
(650) 949-7296

CRPL 55  
**LIFELONG LEARNING STRATEGIES**  
3 Units  
3 hours lecture.  
Interactive, applied course to teach learning strategies and skills necessary to successfully reach educational, career and personal objectives. Topics include time management, memory techniques, study reading, note taking, test preparation, other learning strategies and the techniques to apply them in college and throughout life.
CRLP 70 SELF-ASSESSMENT 3 Units
Advisory: Not open to students with credit in CRLP 76 or 76A.
3 hours lecture.
Exploration of individual skills, interests, values, and personality style as they relate to career choice. Includes testing, values clarification, skills identification, lifestyle assessment, decision making and goal-setting techniques.

CRLP 71 EXPLORING CAREER FIELDS 1 Unit
Advisory: Pass/No Pass. May not be concurrently enrolled in CRLP 70.
May be taken 3 times for credit.
1 hour lecture.
Explore career options compatible with student's strengths and interests. Using resources on the campus as well as on the Internet and in communities to investigate specific career choices, researching job descriptions, desired employee characteristics, training/education requirements, salary ranges and employment trends.

CRLP 72 INTERVIEWING FOR CAREER INFORMATION IN THE COMMUNITY 1 Unit
Advisory: Pass/No Pass.
May be taken 3 times for credit.
1 hour lecture.
Acquisition of career information through interviews with people active in their career fields. Includes making initial contacts, preparing questions for the interview, work site visitation, job-shadowing and networking.

CRLP 73 EFFECTIVE RESUME WRITING 1 Unit
Advisory: Pass/No Pass.
May be taken 3 times for credit.
1 hour lecture.
Development of successful resume writing skills including understanding of the hidden job market, types of resumes and tips that will create resumes that result in interviews.

CRLP 74 SUCCESSFUL INTERVIEWING TECHNIQUES 1 Unit
Advisory: Pass/No Pass.
May be taken 3 times for credit.
1 hour lecture.
Development of successful interviewing skills includes techniques for pre-interview preparation, dynamics of an interview, salary negotiations and follow-up.

CRLP 75 JOB SEARCH STRATEGIES 1 Unit
Advisory: CRLP 73 and 74.
May be taken 3 times for credit.
1 hour lecture.
Designed to familiarize students with the job search process: the barriers, the techniques, strategies and skills necessary to develop, plan, implement and conduct a comprehensive and successful job search.

CRLP 77 PREPARATION FOR SOCIAL SCIENCE CAREERS 1 Unit
1 hour lecture, 1 hour computer time.
Preparation course for students considering a career in the social sciences. Using guided self-reflection of interests and aptitudes, career research and critical analysis the student will learn what is needed to enter a social science career of their choice.
The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellilo/CRLP/occupations.htm.

CRLP 79 PREPARATION FOR CAREERS IN THE HUMANITIES 1 Unit
1 hour lecture, 1 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 80 PREPARATION FOR CAREERS IN THE SCIENCES 1 Unit
1 hour lecture, 1 hour computer time.
Preparation course for students considering a career in a 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 sciences 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 81 PREPARATION FOR CAREERS IN THE COMMUNITY 1 Unit
1 hour lecture, 1 hour computer time.
Preparation course for students considering a career in the social sciences. Using guided self-reflection of interests and aptitudes, career research and critical analysis the student will learn what is needed to enter a social science career of their choice.
The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellilo/CRLP/occupations.htm.

CRLP 82 PREPARATION FOR CAREERS IN THE ARTS 1 Unit
1 hour lecture, 1 hour computer time.
Preparation course for students considering a career in the arts, including but not limited to art, music, drama, and film. Using guided self-reflection of interests and aptitudes, career research and critical the student will learn what is needed to enter a career in the arts of their choice.
The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure if applicable, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellilo/CRLP/occupations.htm.

CRLP 83 PREPARATION FOR CAREERS IN THE SCIENCES 1 Unit
1 hour lecture, 1 hour computer time.
Preparation course for students considering a career in a 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 sciences 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 84 PREPARATION FOR CAREERS IN THE COMMUNITY 1 Unit
1 hour lecture, 1 hour computer time.
Preparation course for students considering a career in one of the physical or biological sciences, including but not limited to medical, health and research areas. Using guided self-reflection of interests and aptitudes, career research and critical analysis the student will learn what is needed to enter a sciences career of their choice.
The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellilo/CRLP/occupations.htm.

CRLP 85 PREPARATION FOR ENGINEERING & TECHNOLOGY CAREERS 1 Unit
1 hour lecture, 1 hour computer time.
Preparation course for students considering a career in engineering & technology. Using guided self-reflection of interests and aptitudes, career research and critical analysis the student will learn what is needed to enter a engineering or technology field of their choice.
The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellilo/CRLP/occupations.htm.

CRLP 86 PREPARATION FOR BUSINESS CAREERS 1 Unit
1 hour lecture, 1 hour computer time.
Preparation course for students considering a career in business. Using guided self-reflection of interests and aptitudes, career research and critical analysis the student will learn what is needed to enter a business career of their choice.
The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellilo/CRLP/occupations.htm.

CRLP 87 PREPARATION FOR CAREERS IN SECURITY & SAFETY 1 Unit
1 hour lecture, 1 hour computer time.
Preparation course for students considering a career in security, to include but not limited to law enforcement, military, EMT/paramedic, forensics, computer security and security sales. Using guided self-reflection of interests and aptitudes, career research and critical the student will learn what is needed to enter a security career of their choice.
The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellilo/CRLP/occupations.htm.

CRLP 88 PREPARATION FOR CAREERS IN THE ARTS 1 Unit
1 hour lecture, 1 hour computer time.
Preparation course for students considering a career in the arts, including but not limited to art, music, drama, and film. Using guided self-reflection of interests and aptitudes, career research and critical the student will learn what is needed to enter a career in the arts of their choice.
The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications 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 89 PREPARATION FOR CAREERS IN BUSINESS 1 Unit
1 hour lecture, 1 hour computer time.
Preparation course for students considering a career in business. Using guided self-reflection of interests and aptitudes, career research and critical analysis the student will learn what is needed to enter a business career of their choice.
The course covers career opportunities, professional and academic preparation, skill requirements and how to obtain them, certifications, licensure, workplace expectations and resources available. To match careers to the correct course visit this link on the Internet - http://www.fgamedia.org/faculty/cellilo/CRLP/occupations.htm.

CRLP 90 HIGH-TECH CAREER EXPLORATION ON THE INTERNET 1 Unit
Advisory: Familiarity with computing and the Internet. Not open to students with credit in CAST 50.
May be taken 3 times for credit.
2 hours lecture-laboratory, 1 hour terminal time.
Exploration of careers using the resources of the Internet. The student will explore interests, aptitudes, career clarification and use the internet as a resource in developing a career plan.

CRLP 200A PREPARATION FOR RADIOLOGIC TECHNOLOGY 1 Unit
Advisory: Pass/No Pass.
1 hour lecture.
Designed to prepare students to apply to the Radiologic Technology Program.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
CRLP 220B PREPARATION FOR DENTAL HYGIENE 1 Unit
Non-degree applicable credit course. 1 hour lecture.
Designed to prepare students to apply to the Dental Hygiene Program.

CRLP 220C PREPARING FOR RESPIRATORY THERAPY 1 Unit
Non-degree applicable credit course. 1 hour lecture.
Designed to prepare students for the Respiratory Therapy Program.

CRLP 220D PREPARATION FOR RADIATION THERAPY PROGRAM 1 Unit
Non-degree applicable credit course. 1 hour lecture.
Designed to prepare student to apply to the Radiation Therapy Program.

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

CHEM 1A GENERAL CHEMISTRY 5 Units
Prerequisite: Satisfactory score (22) on the chemistry placement test or CHEM 25. Satisfactory score on the mathematics placement test or MATH 104 or 105. Advisory: ENGL 100 or ESL 25.
3 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory.
Fundamental chemical principles with emphasis on physical and chemical properties, stoichiometry, chemical reaction types, kinetic molecular theory, thermochemistry, modern atomic theory, atomic structure, chemical bonding theory, and molecular shapes. Laboratory parallels lecture topics and also includes chemical nomenclature, basic chemical equations, stoichiometry, unknown analysis, and fundamentals of oxidation and reduction. [CAN CHEM 1, CAN CHEM 2 = CHEM 1A+1B, CAN CHEM SEQ A = CHEM 1A+1B+1C]

CHEM 1B GENERAL CHEMISTRY 5 Units
Prerequisite: CHEM 1A.
3 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. Kinetic molecular theory and gas laws, intermolecular forces, chemical kinetics, equilibria, behavior of acids and bases, acid/base equilibrium, and classical thermodynamics. Laboratory parallels lecture topics and includes computer graphing techniques, chemical kinetics, equilibrium measurements, heat transfer experiments, thermodynamics of an equilibrium system, vapor pressure of liquids. [CAN CHEM 2 = CHEM 1A+1B, CAN CHEM 3, CAN CHEM SEQ A = CHEM 1A+1B+1C, CAN CHEM 4 = CHEM 1B+1C]

CHEM 1C GENERAL CHEMISTRY & QUALITATIVE ANALYSIS 5 Units
Prerequisite: CHEM 1B.
3 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. Aqueous ionic equilibria of buffers and solubility product constants; electrochemistry including the thermodynamics of voltaic cells; introduction to coordination chemistry and bonding theory; nuclear chemistry with emphasis on applications; and an introduction to organic chemistry. Laboratory parallels lecture topics with a brief introduction to qualitative inorganic analysis. [CAN CHEM 4 = CHEM 1B+1C, CAN CHEM 5, CAN CHEM SEQ A = CHEM 1A+1B+1C]

CHEM 1D INTRODUCTORY CHEMISTRY 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or concurrent enrollment in MATH 105.
4 hours lecture, 2 hours laboratory, 1 hour terminal time. This course provides a survey of general chemistry principles for non-science majors. This course satisfies the Area III - Natural Sciences (with laboratory) general education requirement. No background in chemistry or physics is required. The course focuses on chemical topics that are informative and relevant to everyday life. Emphasis on the scientific method, the structure of matter, gases, liquids, solids, acids and bases, and organic molecules. Special topics in biochemistry, energy, drugs, and natural resources may be covered. Corresponding laboratory activities are performed concurrently with the lecture topics.

CHEM 12A ORGANIC CHEMISTRY 6 Units
Prerequisite: CHEM 1C.
4 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. A course covering the reactivity of organic (carbon containing) compounds. Emphasis on structure-reactivity relationships, mechanisms of functional group transformations, and preparation of organic compounds. For biological science, chemistry, chemical engineering, pre-professional students in dentistry, medicine, pharmacy, veterinary medicine and other interested students who have mastered the prerequisites.

CHEM 12B ORGANIC CHEMISTRY 6 Units
Prerequisite: CHEM 12A.
4 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. A continuation of a course covering the reactivity of organic (carbon containing) compounds, including bio-molecules. Continued emphasis on structure-reactivity relationships, mechanisms of functional group transformations, and methods of synthesis, purification and isolation and characterization of organic target molecules. For biological science, chemistry, chemical engineering, pre-professional students in dentistry, medicine, pharmacy, veterinary medicine and other interested students who have mastered the prerequisites.

CHEM 25 FUNDAMENTALS OF CHEMISTRY 5 Units
Prerequisite: Concurrent enrollment in ESL 25 or ENGL 100 is recommended. 4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory.
Intended for students who wish to meet general education requirements in physical science or need background preparation for CHEM 1A. The course includes basic chemical laboratory techniques and methods, a survey of important chemical principles with emphasis on problem solving, and a description of the elements and their compounds.

CHEM 30A SURVEY OF INORGANIC & ORGANIC CHEMISTRY 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 220.
4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. This is an introductory course covering basic principles of chemistry more descriptive than quantitative in emphasis. Topics include atomic structure, trends in the periodic table, the three states of matter (gas, liquid and solid), energy, chemical bonding and molecular compounds, nomenclature, measurement and the periodic system, chemical reactions and equations, solutions, acids, bases, salts and electrolyte systems. This chemistry course is primarily for students entering the Allied Health field including: nursing, veterinary technology, dental assistant, dental hygiene, biotechnology, primary care associate, radiation therapy technology, radiological technology, respiratory therapy, and pharmaceutical technology. [CAN CHEM 6, CAN CHEM SEQ B = CHEM 30A+30B]

CHEM 30B SURVEY OF ORGANIC & BIOCHEMISTRY 5 Units
Prerequisite: CHEM 30A.
4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. This is an introductory course covering basic principles of organic chemistry and biological chemistry. Topics include organic chemistry nomenclature, functional groups, and an introduction to structure and properties of carbohydrates, lipids, nucleic acids, proteins and enzymes. An overview of metabolism will also be given. This chemistry course is primarily for students entering the allied health field including: nursing, dental hygiene, and biotechnology. [CAN CHEM 8, CAN CHEM SEQ B = CHEM 30A+30B]

CHEM 34H HONORS INSTITUTE SEMINAR IN CHEMISTRY 1 Unit
Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in CHEM 34.
1 hour lecture. A seminar in directed readings, discussions and projects in chemistry. Specific topics to be determined by the instructor.
CHM 36  SPECIAL PROJECTS IN CHEMISTRY 1 Unit
Prerequisite: Four quarters of college-level chemistry.
Any combination of CHM 36–36Y may be taken for a maximum of 6 units.
3 hours laboratory.

CHM 36X 2 Units
CHM 36Y 3 Units

CHM 100 CHEMISTRY STUDENT ASSISTANCE .5 Unit
CHM 100X 1 Unit
CHM 100Y 2 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
Corequisite: Concurrent enrollment in any chemistry course.
Any combination of CHM 100–100Y may be taken a maximum of 8 times for credit.
1.5 hours laboratory for each .5 unit of credit.

CHEM 190 DIRECTED STUDY .5 Unit
CHEM 190X 1 Unit
CHEM 190Y 1.5 Units
CHEM 190Z 2 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
Corequisite: Concurrent enrollment in any chemistry course.
Any combination of CHEM 190–190Z may be taken for a maximum of 12 units.
One half-hour lecture, 1.5 hours laboratory for each .5 unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

CHEM 380Z CHEMISTRY STUDENT ASSISTANCE 0 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
Corequisite: Concurrent enrollment in any chemistry course.
May be taken 6 times for credit.
12 hours laboratory.

Cultural Awareness and Creativity in Young Children. Using a variety of media to
Performing arts. Role of the parent and teacher in encouraging children's explorations.

CHILD 64N BUILDING RELATIONSHIPS BETWEEN 1 Unit
PARENTS & CHILDREN
Advisory: Pass/No Pass.
May be taken 6 times for credit.
1 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.

CHILD 50A INFANT/TODDLER DEVELOPMENT 3 Units
3 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 68  TOPICS/PROJECTS IN CHILD DEVELOPMENT  1 Unit
CHLD 68X  2 Units
CHLD 68Y  3 Units
CHLD 68Z  4 Units
Any combination of CHLD 68–68Z may be taken a maximum of 6 times for credit.
1 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
2 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 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  MUSIC & MOVEMENT IN THE EARLY YEARS
3 hours laboratory.
Music and movement activities and experiences that facilitate non-musician
teachers to express ideas and implement expanded curriculum ideas for infants/
toddlers, preschoolers and school aged children. Elements of presentation and
basic concepts of teaching music and movement to promote the growth and
development of the young children.

CHLD 74  SCIENCE & NATURE
1 Unit
1 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
3 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
1 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 hours lecture.
Introduction to literacy 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
4 Units
Advisory: CHLD 55, 68 and a minimum of 3 quarter units in child development
courses.
4 hours lecture
Focus on preparing teachers for the role of mentoring student teachers, assistant
teachers, parents, and volunteers in early childhood settings. Emphasis is on the role of
teachers supervising other adults while simultaneously addressing the classroom needs
of the children and parents in the program. Development will focus on the professional
self, portfolio development, documentation of the teachers' work with children.

CHLD 86B  PRACTICUM STUDENT TEACHING IN AN EARLY CHILDHOOD PROGRAM
Advisory: CHLD 55, 88 and a minimum of 3 quarter units in child development
courses.
2 hours lecture, 10 hours laboratory.
Focus on students preparing to work in an early childhood program. Integrating and
applying knowledge and understanding of the process of child growth and development
to group settings with young children. Incorporates the role of the teacher as it relates
to observing, interacting, with children and families, planning and implementing
developmentally appropriate curriculum, and participating in staff meetings.

CHLD 88  CHILD, FAMILY & COMMUNITY
4 Units
4 hours lecture.
Child's relationship to the family and community. Interaction of family members
and the community as they cope with problems that affect the child. How family
life practices and attitudes differ among cultures. Major child development theories
and how they relate to cross-cultural perspectives of the child in society.

CHLD 88B  POSITIVE BEHAVIOR MANAGEMENT
2 Units
Two hour lecture.
Introduction to a range of positive guidance techniques that can be used with infants,
toddlers, pre-school, and school-aged children. Emphasis on selection of
appropriate strategies to meet the needs of each individual child.

CHLD 89  CURRICULUM FOR THE PRESCHOOL CLASSROOM
3 Units
Advisory: CHLD 50B recommended.
3 hours lecture.
Developmentally appropriate curriculum practices. Essential elements of the
quality preschool environment (physical, temporal, interpersonal, cultural). Areas,
activities, and materials which combine to enhance the development of skills and
self esteem in preschoolers.

CHLD 90B  ADMINISTRATION & SUPERVISION: DESIGNING & STARTING CHILD CARE FACILITIES
3 units
Advisory: Completion of 9 units of child development courses.
4 hours lecture.
Components of a quality child care center including types of programs, facility
design and set up, licensing regulations, budgeting processes, personnel and policy
procedures, food, health and safety issues, and working with advisory boards.

CHLD 90C  PROGRAM OPERATION
4 Units
Advisory: Completion of 9 units of child development courses.
4 hours lecture.
Administrative responsibilities including budgeting processes, program philosophy,
program assessment, marketing and enrollment management, parent and community
involvement, ADA facility requirements, and equipment selection.

CHLD 91  ADMINISTRATION & SUPERVISION: ADULT SUPERVISION
4 Units
Advisory: Completion of 9 units of child development courses.
4 hours lecture.
Methods and principles of supervising adults in early childhood classrooms.
Emphasis on the role of experienced classroom teachers who function as support
and mentors to new teachers. Fulfills requirement of Child Development Permit
Matrix and Mentor Teacher course.

CHLD 95  HEALTH, SAFETY & NUTRITION IN CHILDREN'S PROGRAMS
3 Units
3 hours lecture.
For child care providers engaged in-home or classroom care of young children.
Studies will include how to improve health and safety procedures, signs and symptoms
of infectious diseases, knowledge of sanitary food handling, child nutrition and
physical fitness, signs and symptoms of child abuse, and emergency preparedness
and evacuation. Student earns a first aid with CPR training certificate. Course meets
Title 22, Section 101215.1 California State Licensing requirement.
### CHINESE-MANDARIN

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHIN 1</td>
<td>ELEMENTARY CHINESE I</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>CHIN 2</td>
<td>ELEMENTARY CHINESE II</td>
<td>5</td>
<td>CHIN 1 or 1 year of high school Chinese.</td>
</tr>
<tr>
<td>CHIN 3</td>
<td>ELEMENTARY CHINESE III</td>
<td>5</td>
<td>CHIN 2 or 2 years of high school Chinese.</td>
</tr>
<tr>
<td>CHIN 4</td>
<td>INTERMEDIATE CHINESE</td>
<td>5</td>
<td>CHIN 3 or 3 years of high school Chinese.</td>
</tr>
<tr>
<td>CHIN 5</td>
<td>INTERMEDIATE CHINESE</td>
<td>5</td>
<td>CHIN 4 or 4 years of high school Chinese.</td>
</tr>
<tr>
<td>CHIN 6</td>
<td>INTERMEDIATE CHINESE</td>
<td>5</td>
<td>CHIN 5.</td>
</tr>
<tr>
<td>CHIN 13A</td>
<td>INTERMEDIATE CONVERSATION I</td>
<td>4</td>
<td>CHIN 3. May be taken 6 times for credit.</td>
</tr>
<tr>
<td>CHIN 13B</td>
<td>INTERMEDIATE CONVERSATION II</td>
<td>4</td>
<td>CHIN 13A. May be taken 6 times for credit.</td>
</tr>
<tr>
<td>CHIN 14A</td>
<td>ADVANCED CONVERSATION I</td>
<td>4</td>
<td>CHIN 13B. May be taken 6 times for credit.</td>
</tr>
<tr>
<td>CHIN 14B</td>
<td>ADVANCED CONVERSATION II</td>
<td>4</td>
<td>CHIN 13A. May be taken 6 times for credit.</td>
</tr>
<tr>
<td>CHIN 14C</td>
<td>ADVANCED CONVERSATION III</td>
<td>4</td>
<td>CHIN 13B. May be taken 6 times for credit.</td>
</tr>
<tr>
<td>CHIN 15</td>
<td>ADVANCED COMPOSITION &amp; READING</td>
<td>4</td>
<td>CHIN 6.</td>
</tr>
<tr>
<td>CHIN 25A</td>
<td>ADVANCED COMPOSITION &amp; READING</td>
<td>4</td>
<td>CHIN 6.</td>
</tr>
</tbody>
</table>

For more information, visit www.foothill.edu/la/
CHIN 25B  ADVANCED COMPOSITION & READING II  4 Units  
Prerequisite: CHIN 25A.  
4 hours lecture.  
Continuation of CHIN 25A. Reading and analysis of authentic Chinese written materials intended for native Chinese readers, as exponents of the culture and history. Development of further skills in reading authentic materials, including magazines, newspaper articles, editorials, literature, and abstract theories. Practice in writing expository essays. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of reading and writing skills by exploring various forms of literary and other forms of creative thoughts. Understanding and appreciating the ambiguities, vagaries, and value inherent in the target language.  
CHIN 34H  HONORS INSTITUTE SEMINAR IN CHINESE  1 Unit  
Formerly: CHIN 34  
Prerequisite: Honors Institute participant.  
1 hour lecture.  
A seminar in directed readings, discussions, and projects in Chinese. Specific topics to be determined by the instructor.  
CHIN 36  SPECIAL PROJECTS IN CHINESE  1 Unit  
CHIN 36X  2 Units  
CHIN 36Y  3 Units  
CHIN 36Z  4 Units  
Prerequisite: CHIN 6.  
Any combination of CHIN 36–36Z may be taken for a maximum of 24 units.  
1 hour lecture.  
A study oriented toward spoken or written practice or both in Chinese. This may entail research and critical techniques adapted to individual writing and/or oral presentation projects under instructor supervision. Specific topics vary from quarter to quarter. This course cannot be substituted for departmental requirements.  
CHIN 103  CHINESE BUSINESS CULTURE & ETIQUETTE  1 Unit  
Non-degree applicable credit course.  
1 hour lecture.  
Introduction to basic Chinese business etiquette and culture. Basic business greetings and interactions. Culturally appropriate behavior and body language. The role of gift giving and socializing in a business setting. The decision-making process in Chinese corporate culture.  
CHIN 110  CHINESE LANGUAGE & CULTURE  2.5 Units  
Non-degree applicable credit course.  
2.5 hours lecture, 1 hour laboratory.  
Introduction to the Chinese language with emphasis on the active use of practical Chinese in simple everyday situations. Basic grammar, vocabulary and pronunciation, with frequent small group conversations. Introduction to Chinese culture with emphasis on cultural diversity within China and among other Chinese-speaking regions.  
CHIN 112  CHINESE LANGUAGE & CULTURE  2.5 Units  
Non-degree applicable credit course.  
Prerequisite: CHIN 110.  
2.5 hours lecture, 1 hour laboratory.  
Continued practice of spoken and written Chinese 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 Chinese culture and society.  
CHIN 120  INTRODUCTION TO READING & WRITING CHINESE  3 Units  
Non-degree applicable credit course.  
Prerequisite: Basic social conversational competence in Mandarin Chinese.  
3 hours lecture.  
Development of reading and writing skills, including the pin yin pronunciation system, for students with basic conversational skills in Mandarin Chinese. Recognition and production of the 300 commonly used Chinese characters. Reading of simple authentic texts and writing short narratives.
COMM 10  GENDER, COMMUNICATION & CULTURE  4.5 Units
Formerly: SPCH 10
Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. Not open to students with credit in SPCH 10.
4 hours lecture, 1.5 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 languages, traditions, and practices which normalize certain expectations, values, meanings, and patterns of behavior across cultural/ethnic lines (Native Americans, European Americans, African Americans, Asian Americans, Gays, Lesbians, Bisexual, and Transgendered peoples).

COMM 12  INTERCULTURAL COMMUNICATION  4.5 Units
Formerly: SPCH 12
Advisory: Eligibility for ENGL 1A or ESL 26, or equivalent. Not open to students with credit in SPCH 12.
4 hours lecture, 1.5 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, THTR 24 or SPCH 24. May be taken 2 times for credit.
4 hours lecture, 1.5 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
Advisory: Not open to students with credit in SPCH 30.
4 hours lecture, 1.5 hours laboratory.
Introductory techniques of selection, comprehension, oral interpretation and presentation of prose, poetry, and dramatic literature, exploring diverse cultural and ethnic backgrounds.

COMM 34H  HONORS INSTITUTE SEMINAR IN SPEECH  1 Unit
Formerly: SPCH 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in SPCH 34.
1 hour lecture.
A seminar in directed readings, discussions, and projects in speech. Specific topics to be determined by the instructor.

COMM 35  DEPARTMENT HONORS PROJECTS IN SPEECH  1 Unit
COMM 35X  2 Units
COMM 35Y  3 Units
COMM 35Z  4 Units

COMM 36  SPECIAL PROJECTS IN SPEECH  1 Unit
COMM 36X  2 Units
COMM 36Y  3 Units
COMM 36Z  4 Units
Formerly: SPCH 36
Advisory: COMM 1A or 4. Not open to students with credit in SPCH 36.
Any combination of COMM 36–36Z may be taken for a maximum of 8 units. 1 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, THTR 46 or SPCH 46.
4 hours lecture, 1.5 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
Formerly: SPCH 53
Advisory: Not open to students with credit in SPCH 53.
4 hours lecture, 1.5 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
COMM 54X  2.5 Units
COMM 54Y  3.5 Units
COMM 54Z  4.5 Units
Formerly: SPCH 54
Advisory: Eligibility for ENGL 1A or ESL 26 or equivalent. Not open to students with credit in SPCH 54.
Any combination of COMM 54–54Z may be taken for a maximum of 6 times for credit.
Training in principles of debate and forensic speech; preparation for participation in competitive debate, extramural speaking and oratory. Students required to attend and participate in intercollegiate forensic tournaments.

COMM 55  PROFESSIONAL & CAREER COMMUNICATION  4.5 Units
Formerly: SPCH 55
Advisory: Eligibility for ENGL 1A or ESL 26 or equivalent. Not open to students with credit in SPCH 55.
4 hours lecture, 1.5 hours laboratory.
Introduction to communication in organizational and career contexts. Interviewing, interpersonal and intercultural communication, group interactions, and professional presentations. Application of theories and skills through critically evaluated exercises.

COMM 105  SPEAKING WITH CONFIDENCE  4.5 Units
Formerly: SPCH 105
Advisory: Not open to students with credit in SPCH 105.
4 hours lecture, 1.5 hours laboratory.
Emphasizes experiences in verbal communications specifically designed to reduce speaking anxiety/communication reticence. Development of practical skills in academic, social and work/professional situations where success is largely dependent on clear, effective communication.

COMM 190  DIRECTED STUDY  .5 Unit
COMM 190X  1 Unit
COMM 190Y  1.5 Units
COMM 190Z  2 Units
Formerly: SPCH 190
Non-degree applicable non-credit course.
Advisory: Pass/No Pass. Not open to students with credit in SPCH 190.
Any combination of COMM 190–190Z may be taken for a maximum of 12 units. 1 hour lecture, 1.5 hours laboratory.
For students who desire or require additional help in attaining comprehension and competency in learning skills.
CIS 1  INTRODUCTION TO COMPUTER SCIENCE  5 Units
4 hours lecture, 4 hours laboratory.
Provides a broad overview of the field of computer science and an introduction to software engineering. Introduces hardware, software, information systems, software development and networking. Uses a subset of a programming language to study programming and problem solving.

CIS 2  COMPUTERS & SOCIETY  5 Units
Advisory: MATH 220; ENGL 1A or ESL 26.
4 hours lecture, 4 hours laboratory.
A critical examination of the capabilities and uses of modern computers and how they affect society. Hands-on introduction to selected applications such as document creation, manipulation of numeric data, accessing information, decision support and expert systems, graphics and multimedia.

CIS 12A  FUNDAMENTALS OF VISUAL BASIC.NET  5 Units
Advisory: MATH 220.
4 hours lecture, 4 hours laboratory.
Introduction to computer programming using the Visual Basic.NET Language. Provides an overview of computer organization and an introduction to software engineering. Topics include methodologies for program design, development, style, testing and documentation; algorithms, control structures, objects, classes, file I/O, and elementary data structures. [CAN CSCI 6]

CIS 12C  INTERMEDIATE VISUAL BASIC PROGRAMMING  5 Units
Advisory: CIS 12A or equivalent.
4 hours lecture, 4 hours laboratory.
Intermediate/advanced level course for programming and human computer interaction (HCI) using VB.NET. Includes but not limited to overview of OOP, designing classes, advanced objects, and advanced validation techniques; design and usability features using VB.NET forms and controls; database integration using SQL Server and ADO.NET; web development using Visual Web Developer; in addition to .NET security and deployment features.

CIS 12D  ADVANCED VISUAL BASIC.NET: FOR WINDOWS-BASED APPLICATIONS  5 Units
Advisory: CIS 12A or equivalent.
4 hours lecture, 4 hours Laboratory.

CIS 12W  DEVELOPING WEB APPLICATIONS WITH VISUAL BASIC.NET
Advisory: CIS 12A.
4 hours lecture, 4 hours laboratory.
Developing Web Applications using the VB.NET language. Visual Basic.NET is one of the latest programming languages from Microsoft designed to support the Internet solutions. Using the Internet related classes in the .NET Framework, VB.NET provides a powerful set of tools both for constructing Web Forms applications using ASP.NET as well as XML Web Services. This Course, which assumes a basic understanding of VB or C# programming, covers all of the key elements of building Web Applications and is targeted at preparing students for the Microsoft Web Applications Certification Exam.

CIS 15A  COMPUTER SCIENCE I: C++  5 Units
Advisory: MATH 220
4 hours lecture, 4 hours laboratory.
Introduces the discipline of computer science using the ANSI C++ language; provides an overview of computer organization and an introduction to software engineering. Topics include methodologies for program design, development, style, testing and documentation; algorithms, control structures, sub-programs, elementary data structures.
CIS 19K  USER INTERFACE DESIGN WITH EXPRESSIIONS BLEND  5 Units
Advisory: CIS 19M, COIN 78.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
Expression Blend is a new tool from Microsoft for designing both Windows and Web user interfaces using XML. It is an XML derivative. Blend seamlessly permits the incorporation of audio, video, 2D and 3D vector art, bitmap images and animations into stunning user interfaces. Through data binding and other markup extensions, XAML permits the implementation of a considerable degree of functionality without requiring a full fledged programming language such as C#. At the same time, Blend is able to totally coordinate with Visual Studio so that the same project can be worked on simultaneously by a designer using Blend and by a C# developer using Visual Studio. Blend will ultimately be used both by professional user interface designers and by developers for most WPF (Windows Presentation Foundation) UIs since its feature set for design purposes is considerably richer than the equivalent designer in Visual Studio.

CIS 19L  WINDOWS COMMUNICATION FOUNDATION (WCF) INTRODUCTION  5 Units
Advisory: CIS 12D, 12W, 19D, 19W.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
This course provides students with an understanding of the Windows Communications Foundation and the skills required to use this Framework to develop service-oriented applications (SOA) on Windows. This course will explain how to take advantage of built-in features of Version 3.0 (and following) of the .NET Framework such as service hosting, instance management, asynchronous calls, synchronization, reliability, transaction management, disconnected queued calls and security to build distributed applications.

CIS 19M  WINDOWS PRESENTATION FOUNDATION-INTRODUCTION  5 Units
Advisory: CIS 12C, 19D, COIN 78.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
This course provides students with an understanding of the Windows Presentation Foundation and the skills required to use this Framework to create both dynamic C# Windows Forms and browser-hosted applications. WPF is a new programming paradigm introduced in Version 3.0 of the .NET Framework as an alternative to traditional Windows Forms programming. WPF effectively permits the separation of user interface design (to be principally implemented by designers) from the underlying functionality (to be implemented by developers). WPF also permits almost any control to host any other control, thereby allowing dramatic user interface such as buttons hosting videos or 3D drawings.

CIS 19N  DEPLOYING .NET APPLICATIONS  5 Units
Advisory: CIS 12C, 19D.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
This course provides students with an understanding of how to deploy .NET applications using Microsoft Installer, MSBuild and ClickOnce technologies. The course will address the installation of both Windows Forms applications and Web Applications. It also covers both initial installations and service packs as well as patches and other updates.

CIS 19P  ADVANCED PROGRAMMING WITH C#  5 Units
Advisory: CIS 12A or 15A or 19A or 27A.
4 hours lecture, 4 hours laboratory.
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.

CIS 19V  USING VISUAL STUDIO TOOLS FOR OFFICE  5 Units
Non-degree applicable credit course.
Advisory: CIS 12A or 19A.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
Visual Studio Tools for Office (VSTO) is an add-in to Visual Studio 2005 which allows developers to build Microsoft Office related applications. VSTO applications can take three forms: (1) Office automation, (2) Office add-ins and (3) Code behind Office documents. Office automation refers to a C# or VB.NET application which uses some capability of one or more Office applications to perform a given task. For example, an application could use either Word or Excel to print a document pursuant to some pre-designed format. Office add-ins are applications which run at the same time as the Office application with which they are associated and which appear to be an integral part of the application’s user interface. Code behind Office documents correspond to classic Visual Basic for Applications (VBA) projects which customize a particular Office document. This course will teach students how to use VSTO to build all three types of Office related applications.

CIS 25A  PROGRAMMING IN C  5 Units
Advisory: Knowledge of a high-level programming language.
4 hours lecture, 4 hours laboratory.
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 25B  ADVANCED PROGRAMMING IN C  5 Units
Advisory: CIS 25A or equivalent.
4 hours lecture, 4 hours laboratory.
Advanced professional programming in C. The C compiler, code generation, subroutine linkage, structured programming, complex declarations, memory allocation, use of the heap and stack, multidimensional arrays, advanced pointers, recursion, I/O, debugging and portability.

CIS 27A  COMPUTER SCIENCE I: JAVA  5 Units
Advisory: MATH 220.
4 hours lecture, 4 hours laboratory.
Introduces the discipline of computer science using the Java language; provides an overview of computer organization and an introduction to software engineering. Topics include methodologies for program design, development, style, testing and documentation; algorithms, control structures, sub-programs, objects, and elementary data structures.

CIS 27B  COMPUTER SCIENCE II: JAVA  5 Units
Advisory: CIS 27A or equivalent.
4 hours lecture, 4 hours laboratory.
A systematic approach to the design, construction, and management of computer programs, emphasizing object oriented design and programming, documentation, testing and debugging techniques. Focuses on classes, inheritance, graphical user interfaces, event-driven programs, Web applications, and disk files. Introduction to basic data structures. Builds on the concepts presented in CIS 27A.

CIS 27C  COMPUTER SCIENCE III: DATA STRUCTURES & ALGORITHMS IN JAVA  5 Units
Advisory: CIS 27B.
4 hours lecture, 4 hours laboratory.
A systematic approach to the design and construction of programs using common data structures and their associated algorithms. Focuses on defining abstract data types and 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 27D</td>
<td>JAVA ADVANCED FEATURES</td>
<td>5</td>
</tr>
<tr>
<td>Advisory: CIS 27B or 27P</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Covers several of the more important advanced features of Java not normally covered in CIS 27A or 27B. Topics will include, but will not be limited to, input and output streams, multithreading networking, Remote Method Invocation (RMI), Java Beans, 2D graphics, advanced multimedia and other topics at the discretion of the instructor.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 27P</td>
<td>JAVA FOR PROGRAMMERS</td>
<td>5</td>
</tr>
<tr>
<td>Advisory: Prior C/C++ programming experience.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A comprehensive course in the Java programming language intended for students with previous experience programming in C or C++ and a basic understanding of computer science concepts. Provides instruction in object-oriented programming in Java and the use of classes, data abstraction, arrays, strings, graphics, GUI, files, exception handling and applets. Note: Students with no programming experience who wish to learn Java should opt for CIS 27A.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 30</td>
<td>SELECTED TOPICS IN PROGRAMMING TECHNOLOGY</td>
<td>5</td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to various programming languages and software development tools.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 50A</td>
<td>USING THE COMPUTER: PC (WINDOWS)</td>
<td>5</td>
</tr>
<tr>
<td>Advisory: Not open to students with credit in CIS 50B.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to the computer and its uses for the student with little or no computer experience. Use of the IBM PC (Windows) for hands-on experience with a word processor, a spreadsheet, a database manager, graphics, file management techniques, simple software configuration, an Internet browser, and the use of a programming language. Discussion of other software applications and of the role of computers and the information superhighway in our society.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 51A</td>
<td>PREPARATION FOR TECHNOLOGY CAREERS</td>
<td>3</td>
</tr>
<tr>
<td>1.5 hours lecture, 1.5 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Foothill College technology programs. CIS 51A prepares students to differentiate among the technology careers and enter the career path of their choice. The local opportunities in technology careers to be discussed. In addition, professional and academic preparations, basic skills needed and resources available at Foothill College and aligned schools and industry will be thoroughly reviewed.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 51C</td>
<td>WORKPLACE PRINCIPLES &amp; PRACTICES</td>
<td>4</td>
</tr>
<tr>
<td>Advisory: Grade of “C” or better in ENGL 110 or ESL 25, or eligibility for ENGL 1A or ESL 26.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concepts, principles and practices in the information technology workplace. Emphasis on how the issues of currency, certification, ethical decision-making, globalization, diversity, organizational roles and responsibilities, collaboration, and work-teams, customer service and total quality management apply to the information technology workplace.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 52A</td>
<td>INTRODUCTION TO DATA MANAGEMENT</td>
<td>5</td>
</tr>
<tr>
<td>Advisory: CIS 50A, 50B, or 60.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to database systems and data management. Topics include database definitions and concepts, relational database, client/server database, Internet database, distributed database, object-oriented database, data warehousing, transaction management, database administration, database performance, and hands-on experience with a database management system.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 52B</td>
<td>ORACLE SQL</td>
<td>5</td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Oracle 10g Structured Query Language used in creating, querying, manipulating, and controlling access to the data in a relational database. Students will learn Oracle SQL Plus / ISQL Plus to control elements in a SQL environment. Other topics include advanced querying, manipulating data in different time zones, working with large data sets, and generating reports.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 52B2</td>
<td>INTRODUCTION TO ORACLE SQL</td>
<td>5</td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Oracle 10g Structured Query Language used in creating, querying, manipulating, and controlling access to the data in a relational database. Students will learn Oracle SQL Plus / ISQL Plus to control elements in a SQL environment. Other topics include advanced querying, manipulating data in different time zones, working with large data sets, and generating reports.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 52C</td>
<td>DATABASE MODELING &amp; RELATIONAL</td>
<td>5</td>
</tr>
<tr>
<td>DATABASE DESIGN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to data modeling and the process of database design. This course covers the database development process, entity-relationship model, logical and physical database design.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 52E</td>
<td>ORACLE DATABASE ADMINISTRATION I</td>
<td>5</td>
</tr>
<tr>
<td>Advisory: CIS 52B2 or equivalent.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The basics of Oracle 10g database administration. Overview of Oracle architecture and how each component works; the creation, management, and maintenance of a database and its users; backup and recovery; performance monitoring; Oracle database security; Oracle Net Services; Oracle shared servers; and lock monitoring. Prepares students to take the Oracle Certified Associate exam and the Oracle Certified Professional exam.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 52F</td>
<td>ORACLE DATABASE ADMINISTRATION II</td>
<td>5</td>
</tr>
<tr>
<td>Advisory: CIS 52E or equivalent.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 52J</td>
<td>ORACLE: PROGRAM WITH PL/SQL</td>
<td>5</td>
</tr>
<tr>
<td>Advisory: CIS 52B2 or equivalent.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 hours lecture, 4 hours terminal time.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 52K</td>
<td>ORACLE FORMS DEVELOPER: BUILD</td>
<td>5</td>
</tr>
<tr>
<td>INTERNET APPLICATIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advisory: CIS 52J.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 52L</td>
<td>ORACLE NEW FEATURES FOR DATABASE Administrators</td>
<td>5</td>
</tr>
<tr>
<td>Advisory: CIS 52F.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 52M</td>
<td>ORACLE REPORTS</td>
<td>5</td>
</tr>
<tr>
<td>4 hours lecture, 4 hours laboratory.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CIS 55A  INTRODUCTION TO GAMES  5 Units
4 hours lecture, 4 hours laboratory.
An overview of the game development industry including the positions and job responsibilities that each member of a game development team has along with the industry requirements for documentation. Introduces the student to the software development process. Students will create individual games using a game development environment. This class does not require any programming.

CIS 55B  INTRODUCTION TO GAME DESIGN  5 Units
4 hours lecture, 4 hours laboratory.
A systematic approach to the design and construction of computer games and real-time simulations. Covers topics such as design theory and programming techniques. Students will create small scale games and game components.

CIS 55C  PRACTICAL GAME DESIGN  5 Units
Advisory: CIS 55B.
4 hours lecture, 4 hours laboratory.
A project based approach to the practice and art of computer game design and Real-time simulations. Emphasizes the practical techniques and procedures necessary to create a game. Working in teams, students will design and create a realtime interactive game. The C++ programming language will be used to implement projects.

CIS 60  INTRODUCTION TO BUSINESS INFORMATION SYSTEMS  5 Units
Advisory: MATH 220 or equivalent; eligibility for ENGL 1A or ESL 26.
4 hours lecture, 4 hours terminal time.
Introduction to the concepts of business information systems especially as used in business and similar organizations. Covers the need for information, how computers are used in business to provide information, elements of computer hardware and software, software development, data storage and communication, and the social impact of computers. Hands-on introduction to programming concepts, word processing, spreadsheet and database applications.

CIS 61A  INFORMATICS  5 Units
Advisory: CIS 60 or equivalent.
Corequisite: Concurrent enrollment in CIS 61B.
4 hours lecture, 4 hours laboratory.
Introduction to the concepts, practice and tools underlying the study of Informatics. Topics include, but not limited to, Information representation and infrastructure, Meta data, the Semantic web, knowledge management, data warehousing, data mining, user interface, analytical tools, careers, industry trends, social, global and organizational impacts, and applications in business, industry and education.

CIS 61B  PREPARATION FOR CAREERS IN INFORMATICS  2 Units
Advisory: Not open to students with credit in CIS 51A.
2 hours lecture, 1 hour laboratory.
Orientation to the Foothill College Informatics program. The course has two goals - 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 61C  INFORMATICS TOOLS & METHODS  5 Units
Advisory: CIS 61A or equivalent; MATH 10; familiarity with SQL.
May be taken 3 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 4 hours terminal time.
Introduces students to the methods of using Excel, Access, Informatica, and SAS in solving informatics problems. Hands on use of each tool in combined directed data analysis, integration, and migration activities. Hands on exercises with business intelligence tools, creating reports, customizing dashboards, and use of Meta directories. Use of SQL queries on data cubes for creating custom and automated reports.

CIS 61X  INFORMATICS PROJECTS  1 Unit
1.5 hours lecture, 6 hours terminal time.
Projects course for demonstrating working knowledge of Informatics process and architecture. Students will create an Informatics project incorporating data storage, analysis, and reporting. Typical projects will include, but not be limited to, data mining, visualization, Web-database integration, and XML report formats. Goal of the project is to demonstrate working knowledge, skills, and abilities in Informatics. Concurrent work experience and projects may be submitted with consent of instructor.
CIS 62A DATA WAREHOUSING & DATA MINING 5 Units
Advisory: CIS 62C or equivalent.
4 hours lecture, 4 hours laboratory.
Students will learn the key aspects of data warehousing and visual data mining using a project building approach. Through ‘hands on’ activities students will work with data models that detect patterns in business data sets. Topics include data warehouse design and implementation, data migration strategies, automation techniques visual data mining, tools integration and metadata for end user reporting and utilization.

CIS 62B MODELING & SIMULATION 5 Units
4 hours lecture, 4 hours laboratory.
This course focuses on the fundamentals of interactive computer simulation. Students will explore the use of simulation for a specific application such as for training, to entertain with virtual worlds, or to create digital laboratories for biotechnology or for designing new products. Students will learn to use modeling and simulation software to create models and insert them into virtual worlds. Topics discussed include: basic concepts of simulation modeling, types of simulation modeling techniques including: discrete, continuous modeling as well as animation and simulation modeling. Students will case studies in depth and complete a hands-on modeling and simulation project using simulation software.

CIS 63A SYSTEMS ANALYSIS, DESIGN & HUMAN INTERFACE 5 Units
Advisory: CIS 60 or equivalent; familiarity with object-oriented computer applications; PowerPoint, Flash or equivalent presentation software.
4 hours lecture, 4 hours laboratory.
Introduction to systems development, techniques and tools. Special emphasis is placed on analysis, design and evaluation techniques particularly relevant to HCI. Graphic interface tools are used as a design and implementation prototyping environment.

CIS 63A1 SYSTEMS ANALYSIS & DESIGN 5 Units
Prerequisite: CIS 60 or equivalent.
4 hours lecture, 4 hours laboratory.
Introduction to systems development, techniques and tools. Emphasis is placed on analysis, design and evaluation techniques using traditional and object oriented models. Tools used for the elements of system development will include current popular system development and related applications. The focus of the course is on systems analysis and design in relation business information systems development with the use of CASE tools.

CIS 63B DESIGN & ANALYSIS FOR INFORMATICS RESEARCH 5 Units
Advisory: MATH 10 and CIS 63A or equivalent. May be taken 3 times for credit.
2 hours lecture-laboratory.
Examines the concepts, techniques, tools and methods used typically in informatics research. Topics presented are directed toward analysis of experimental, quasi-experimental and survey data. Hands-on experience with such packages as Excel and SAS or SPSS to collect, organize and process data. Emphasis on data integrity, data visualization descriptive statistics, ANOVA, and REGRESSION analyses.

CIS 64A COMPUTERIZED ACCOUNTING PRACTICE 1 Unit
Prerequisite: ACTG 1 or equivalent experience.
Advisory: MATH 10 or high school algebra recommended. Not open to students with credit in ACTG 64A.
2 lecture-lab.
Practice in accounting procedures and review of accounting principles. Recording business transactions in accounting records and completing the accounting cycle using the computer.

CIS 64B COMPUTERIZED ACCOUNTING: SPREADSHEET 1 Unit
Prerequisite: ACTG 1B or equivalent experience.
Advisory: MATH 10 or high school algebra recommended. Not open to students with credit in ACTG 64B.
2 lecture-lab.
Practice in using an electronic spreadsheet program to organize and process financial and managerial accounting data. Includes analysis of spreadsheet reports.

CIS 68A INTRODUCTION TO LINUX & UNIX 5 Units
Advisory: CIS 50A or 50B or equivalent.
4 hours lecture, 4 hours laboratory.
An introduction to the Linux and UNIX operating systems, primarily focused on command line usage. Covers the kernel, file systems, shells and user utilities. Also introduces students to the fundamentals of shell programming, processes, communications, and basic security.

CIS 68B LINUX & UNIX SHELL PROGRAMMING 5 Units
Advisory: CIS 68A or equivalent.
4 hours lecture, 4 hours terminal time.
Linux shell script programming using the Bourne Again shell programming language (bash) and UNIX utilities to create practical shell scripts.

CIS 68C1 LINUX & UNIX SYSTEM ADMINISTRATION 5 Units
Advisory: CIS 68A or equivalent experience.
4 hours lecture, 4 hours laboratory.
Introduction to basic system administration of Linux and UNIX systems. Overview of basic PC hardware, system boot process, administration utilities, and management of user accounts, file systems, basic networking, printing, security, accounting and logging. Software install and removal using source code and package managers. Kernel updating and boot managers.

CIS 68C2 LINUX & UNIX NETWORKING ADMINISTRATION 5 Units
Advisory: CIS 68A, 68B1 and 68C1 or equivalent experience.
4 hours lecture, 4 hours laboratory.
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
Prerequisite: CIS 68C2 or equivalent experience.
2 hours lecture, 2 hours lecture-laboratory, 2 hours terminal time.
Administration of a UNIX system operating in remote mode using a name service. Hands-on experience with configuration and maintenance.

CIS 68E PROGRAMMING IN PERL 5 Units
Advisory: CIS 15A or 25A or 27A, and CIS 68A.
4 hours lecture, 4 hours laboratory.
Programming in the UNIX environment, PERL, to create utility programs.

CIS 68H BIOPERL PROGRAMMING FOR BIOINFORMATICS 5 Units
Advisory: CIS 68E or COIN 68 or equivalent.
4 hours lecture, 4 hours laboratory.
This course will introduce BioPerl modules in the analysis of bioinformatics data, including downloading, installing and configuring BioPerl in a Windows environment. Using BioPerl modules, this course will show the student how to retrieve, analyze and manipulate genomic/proteomics sequences from databases such as GenBank and GenPept, RefSeq, SWISSPROT, EMBL, etc. It will show how to use BioPerl modules to convert between and from various file formats including FASTA, SWISSPROT, and EMBL. It includes extracting annotations/features from sequence files, performing similar sequence searches and using sequence alignments. BioPerl modules exercises include running applications such as BLAST, Smith-Waterman, Clustalw, HMMER etc. This course is intended for bioinformatics students with a strong foundation in Perl, which is provided by the course CIS 68J.

CIS 68J PERL PROGRAMMING FOR BIOINFORMATICS 5 Units
Advisory: CIS 50A or 50B or equivalent.
4 hours lecture, 4 hours laboratory.
Provides a strong foundation in Perl programming for Bioinformatics, which has become a required lab skill for biologists. It shows the student how to use Perl in a Windows environment to solve programming problems such as creating, modifying, comparing and deleting biological data files, searching for motifs in these data files, manipulating sequences found in these data files etc. Elucidates basic programming concepts such as operators, conditional and loop 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
CIS 68K **INTRODUCTION TO PYTHON PROGRAMMING** 5 Units  
Advisory: CIS 15A or 27A, and CIS 68A.  
4 hours lecture, 4 hours laboratory.  
This course will introduce students to the Python language and environment. Python is a portable, interpreted, object-oriented programming language that is often compared to Perl, Java, Scheme and Tcl. The language has an elegant syntax, dynamic typing, and a small number of powerful, high-level data types. It also has modules, classes, and exceptions. The modules provide interfaces to many system calls and libraries, as well as to various windowing systems (X11, Motif, Tk, Mac, MFC). New built-in modules are easily written in C or C++. Such extension modules can define new functions and variables as well as new object types.

CIS 68L **INTERMEDIATE PYTHON PROGRAMMING** 5 Units  
Advisory: CIS 68K.  
4 hours lecture, 4 hours laboratory  
Extends the students’ understanding of how to write effective applications in the Python programming language. Covers topics that allow a Python program to interface to users, networked applications and databases. Includes advanced topics like multithreading and regular expressions. Enforces object oriented design, thorough documentation, testing and conventional programming style.

CIS 68M **INTERMEDIATE PERL PROGRAMMING** 5 Units  
Advisory: CIS 68E or some Perl programming experience; CIS 68B.  
4 hours lecture, 4 hours laboratory.  
This course presents core Perl language features used to manage the development and complexity of Perl programs requiring hundreds if not thousands of lines of code. An in depth presentation of references and arbitrarily complex data structures provide a basis for object-oriented Perl. Perl and Linux/Unix based mechanisms for release cycle control, unit testing, and code packaging (i.e. a distribution) are also presented. This course is intended to leverage the environment of the Linux/Unix operating systems and its various subsystems (i.e. filesystems, process management, memory management, etc.) and therefore requires a working knowledge on the part of the student and a substantial background on the part of the instructor.

CIS 78 **SOFTWARE ENGINEERING** 5 Units  
Advisory: Any structured programming class.  
4 hours lecture, 4 hours laboratory.  
A language-independent study of current software development methodologies. The stages of systems analysis, product design, implementation and testing are practiced. Collaborative, interactive design and technical writing are problem solving techniques learned.

CIS 93U **CIS EXPERIENTIAL INTERNSHIP** 3 Units  
May be taken for a maximum of 18 units of credit.  
9 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 93V **CIS EXPERIENTIAL INTERNSHIP** 4 Units  
12 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 93W **CIS EXPERIENTIAL INTERNSHIP** 6 Units  
18 hours laboratory.  
Off-campus supervised experiential education of CIS students in database administration, computer software development or Informatics. Opportunity for practical application of knowledge, skills and abilities acquired in CIS and related course work. Exposure to varied protocols, methodologies and practices in a professional working environment.

CIS 96 **SPECIAL PROJECTS** 1 Unit  
CIS 96X 2 Units  
CIS 96Y 3 Units  
Any combination of CIS 96–96Y may be taken for a maximum of 9 units.  
3 hours laboratory.  
Individual research and/or projects in computer information systems, computer science or data communication.

CIS 102 **COMPUTER KEYBOARDING SKILLS** .5 Unit  
Advisory: Not open to students with credit in CAST 102. Pass/No Pass.  
1 hour lecture-laboratory.  
Beginning keyboarding course covering the operation of the keyboard using the touch system and the development of correct techniques to interact more efficiently with desktop computers, computer terminals, or electronic communication systems. Designed for independent skill learning.

CIS 111 **LEARNING-COLLABORATIVE TRAINING** 1 Unit  
Non-degree applicable credit course.  
Prerequisite: 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 3 times for credit.  
1 hour lecture, 2 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 190 **DIRECTED STUDY** .5 Unit  
CIS 190X 1 Unit  
CIS 190Y 1.5 Units  
CIS 190Z 2 Units  
Non-degree applicable credit course.  
Advisory: Pass/No Pass.  
Corequisite: Concurrent enrollment in a computer science class or enrollment in any class requiring computer usage.  
Any combination of CIS 190–190Z may be taken for a maximum of 12 units.  
.5 hour lecture, 1.5 hours laboratory for each .5 unit of credit.  
Computer projects for students who desire or require additional help in attaining comprehension and competency in computer skills.

CIS 191 **WRITING/COMMUNICATION ACROSS THE CURRICULUM FOR COMPUTERS, TECHNOLOGY & INFORMATION SYSTEMS** 1.5 Units  
CIS 191X 1 Unit  
CIS 191Y 2 Units  
Non-degree applicable credit course.  
Advisory: Pass/No Pass.  
Any combination of CIS 191–191Z may be taken for a maximum of 12 units.  
.5 hour lecture, 1.5 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  
(650) 949-7236  
www.foothill.edu/ctis/

CNET 50 **INTRODUCTION TO COMPUTER NETWORKING** 5 Units  
4 hours lecture, 2 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008-2009  
www.foothill.edu
cnet 51a  microsoft windows 2000 professional  5 units
advisory: cnet 50.
4 hours lecture, 2 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 xp professional  4 units
advisory: cnet 50.
4 hours lecture, 2 hours laboratory.
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  5 units
advisory: cnet 50 or equivalent.
4 hours lecture, 2 hours laboratory.
the course covers industry-wide network and systems management topics, including snmp data communication and data collection, infrastructure device discovery, topological mapping of the devices, capability to receive and respond to snmp traps, architecture topics on managing network devices, servers, workstations, applications and databases using industry standard snmp based tools such as openview. this course is designed to prepare the student for the general openview certification exam.

cnet 53b  intermediate network & systems management & troubleshooting  5 units
advisory: cnet 53a or equivalent.
4 hours lecture, 2 hours laboratory.
the course covers industry-wide network and systems management topics, including itil, snmp data communication and data collection, infrastructure device discovery, topological mapping of the devices, capability to receive and respond to snmp traps, architecture topics on managing network devices, servers, workstations, applications and databases using industry standard snmp based tools such as openview. 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  5 units
advisory: cnet 53b or equivalent.
4 hours lecture, 2 hours laboratory.
the course covers advanced industry-wide network and systems management topics, including itil, service management, tcp/ip communications, data collection, reporting, customized snmp configurations, architecture topics on managing networks, systems, applications and databases. the course 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  5 units
may be taken 3 times for credit.
4 hours lecture, 2 hours laboratory.
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  5 units
may be taken 3 times for credit.
4 hours lecture, 3 hours laboratory.
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 i)  5 units
advisory: cnet 50.
may be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 3 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, lan's, wan's, routers, network topology, ip addressing, tcp, and network standards. this is the first course in the cisco networking academy program. this program will prepare students for the cisco certified networking associate (ccna) exam.

cnet 54b  routing protocols & concepts (ccnai)  5 units
advisory: cnet 54a or equivalent.
may be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 3 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 andigrp metric calculations, routing loop issues, routing theory, router ios, and basic router configuration, scenario analysis and troubleshooting, and additional topics such as classless routing, discontiguous subnets, and access control lists. the course also reviews tcp/ip basics, and ip addressing. this is the second course in the cisco networking academy program; it is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will prepare them for the cisco certified networking associate (ccna) exam.

cnet 54c  lan switching & wireless networks (ccna iii)  5 units
advisory: cnet 54b or equivalent.
may be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 3 hours terminal time.
the course is designed to provide students with classroom and laboratory experience advanced features of routers and routing concepts including the ospf and eigrp routing protocols, network congestion issues, lan segmentation using bridges and switches, cut-through and store-and-forward switches, and the operation of the spanning tree protocol. this class includes hands-on experience using cisco routers. this is the third course in the cisco networking academy ccna curriculum.

cnet 54d  wan technologies (ccna iv)  5 units
advisory: cnet 54c or equivalent.
may be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 3 hours terminal time.
instruction includes increasingly sophisticated router configuration (wan services: lapb, frame relay, isdn/lapd, hdlc, ppp, and ddr:); wan switch configuration; network address translation; network troubleshooting. this is the fourth of four courses designed to introduce students to current and emerging networking technology, it is preparation for the cisco certified networking associate (ccna) certification.

cnet 54g  building scalable cisco internetworks (ccnp i)  5 units
advisory: cnet 54c or ccna certification or equivalent.
may be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 3 hours terminal time.
this course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will prepare them for the cisco certified networking professional (ccnp) certification exam: building scalable cisco internetworks (bsci). instruction includes advanced ip addressing, advanced routing protocols including ospf, eigrp, is-is, and bgp, advanced access lists, multicast routing, and ipv6
CNET 54H IMPLEMENTING SECURE CONVERGED WANS (ISCO) 5 Units
Advisory: CNET 54D or CCNA Certification or equivalent. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 3 hours terminal time.
This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: Implementing Secure Converged WANS (ISCO) exam. This course will teach advanced skills required to secure and enhance services in enterprise networks for teleworkers and remote sites. It will focus on securing remote access and VPN client configuration.

CNET 54I BUILDING CISCO MULTILAYER SWITCHED NETWORKS (BCMSN) (CCNP III) 5 Units
Advisory: CNET 54G or 54H and 54i or equivalent. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 3 hours terminal time.
This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: Building Cisco Multilayer Switching Networks. This course teaches advanced skills required for building enterprise-class switched networks with integrated VOIP and wireless applications. The course includes wireless LANs, basic QoS to support voice, high-availability features, and enhanced security for switches.

CNET 54J OPTIMIZING CONVERGED CISCO NETWORKS (ONT) (CCNP IV) 5 Units
Advisory: CNET 54G, 54H and 54i or equivalent. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 2 hours terminal time.
This course is designed to provide students with classroom and laboratory experience in current and emerging networking technology that will prepare them for the Cisco Certified Networking Professional (CCNP) exam: Optimizing Converged Cisco Networks (ONT). This course will teach the advanced skills required to optimize QoS in converged networks supporting voice, wireless, and security applications.

CNET 54L NETWORK SECURITY I FIREWALLS, ACCESS, CONTROL & IDENTITY MANAGEMENT 5 Units
Advisory: CNET 54D or the Cisco CCNA Certification. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 3 hours terminal time.
This course provides students with the knowledge and skills necessary to select appropriate security hardware, software, policies, and configurations based on an organization’s assessment of its security vulnerabilities in order to provide protection against known security threats. The course includes coverage of the Firewalls and the AAA Service. The concepts presented apply to all network security scenarios, the labs will feature Cisco hardware.

CNET 54M CISCO NETWORK SECURITY II - VIRTUAL PRIVATE NETWORKS, INTRUSION DETECTION SYSTEMS & INTRUSION PREVENTION SYSTEMS 5 Units
Advisory: CNET 54D or the Cisco CCNA Certification. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 2 hours terminal time.
This course provides students with the knowledge and skills necessary to select appropriate security hardware, software, policies, and configurations based on an organization’s assessment of its security vulnerabilities in order to provide protection against known security threats. The course includes coverage of the Firewalls, Intrusion Detection, the AAA Service, and VPNS. The concepts presented apply to all network security scenarios, the labs will feature Cisco hardware.

CNET 54N FUNDAMENTALS OF CISCO WIRELESS LANS 5 Units
Advisory: CNET 54B or a basic knowledge of networking and Cisco Router configuration. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 3 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) 5 Units
TECHNOLOGIES
Advisory: CNET 54D or the Cisco CCNA Certification or equivalent experience. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 3 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 5 Units
Advisory: CNET 50 or equivalent.
4 hours lecture, 2 hours laboratory.
The course covers industry-wide security topics, including data communication security, infrastructure security, cryptography, access control, authentication, external attack and operational and organization security. This course is designed to prepare the student for the CompTIA Security+ Certification Exam.

CNET 56B INTRUSION DETECTION, AWARENESS, ANALYSIS & PREVENTION 5 Units
Advisory: CNET 54A, 56A or equivalent.
4 hours lecture, 2 hours laboratory.
Students will apply network security concepts to the management of enterprise network threats, outages and incident response. Student work in teams to assess risk, identify abnormal occurrences, and propose countermeasures. They will get practice in reporting conclusions and recommendations, creating appropriate security procedures and taking steps to raise security awareness.

CNET 56C NETWORK SECURITY PENETRATION TESTING & ETHICAL Hacking 5 Units
Advisory: CNET56A or equivalent. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory, 3 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
Advisory: CNET 54A, 56A, 60A, 60B, 60C, and 60D or equivalent experience. 2 hours lecture, 2 hours lecture-laboratory, 4 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
Advisory: CNET 56A, CIS 66A, 68B, 68C1 and 68C2, or equivalent experience. 4 hours lecture, 4 hours laboratory.
Installing, configuring and maintaining Linux systems from a security standpoint. Understanding systems attacks. Implementing and evaluating Linux security tools in the network.

CNET 56G THE CERTIFIED INFORMATION SYSTEMS PROFESSIONAL 5 Units
Advisory: CNET 56A or equivalent.
4 hours lecture, 3 hours laboratory.
The course covers industry-wide security topics, including data communication security, infrastructure security, cryptography, access control, authentication, external attack and operational and organization security. This course is designed to prepare the student for the CISSP Certification Exam.

CNET 56J FUNDAMENTALS OF COMPUTER FORENSICS 5 Units
Advisory: CNET 116A and 116B
4 hours lecture, 4 hours laboratory.
Course serves as a foundation class in the study of computer forensics. Topics include: disk concepts, analysis of digital media, data retrieval, data reconstruction, collection of evidence and documentation of a computer crime scene. Hands-on experience with digital forensics tools.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
CNET 60A  MICROSOFT WINDOWS 2003 SERVER  5 Units
Advisory: CNET 51A or 51H.
4 hours lecture, 2 hours laboratory.
This course provides students with the knowledge and skills necessary to manage accounts & resources, maintain server resources, monitor server performance, & safeguard data in a Microsoft Windows 2003 Server environment. The course provides the information necessary to pass the Microsoft Certification Exam 70-290, Managing and Maintaining a Microsoft Windows Server 2003 Environment.

CNET 60B  MICROSOFT WINDOWS 2003 NETWORK SERVICES  5 Units
Advisory: CNET 51A or 51H and 60A.
4 hours lecture, 2 hours laboratory.
This course provides students with the knowledge and skills necessary to install, configure, administer, and support a Microsoft Windows 2003 network infrastructure in domain and multiple domain network environments. The course provides the information necessary to pass the Microsoft Certification Exam 70-291, Implementing, Managing, and Maintaining a Microsoft Windows 2003 Network Infrastructure.

CNET 60C  MICROSOFT WINDOWS 2003 NETWORK INFRASTRUCTURE  5 Units
Advisory: CNET 50B.
4 hours lecture, 2 hours laboratory.
This course provides students with the knowledge and skills necessary to plan and maintain a Microsoft Windows Server 2003 network infrastructure in workgroup, domain, and multiple domain network environments. The course provides the information necessary to pass the Microsoft Certification Exam 70-292, Planning and Maintaining a Microsoft Windows 2003 Network Infrastructure.

CNET 60D  MICROSOFT WINDOWS 2003 ACTIVE DIRECTORY  5 Units
Advisory: CNET 60C.
4 hours lecture, 2 hours laboratory.
This course provides students with the knowledge and skills necessary to successfully plan, implement, and troubleshoot a Microsoft Server 2003 Active Directory directory service infrastructure. The course provides the information necessary to pass the Microsoft Certification Exam 70-293, Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure.

CNET 60E  MICROSOFT WINDOWS 2003 NETWORK DESIGN  5 Units
Advisory: CNET 60D.
4 hours lecture, 2 hours laboratory.
This course provides students with the knowledge and skills necessary to design and implement a Microsoft Windows Server 2003 network infrastructure and Active Directory service in domain, tree, and forest network environments. The course provides the information necessary to pass the Microsoft Certification Exam 70-294, Designing a Microsoft Windows Server 2003 Active Directory and Network Infrastructure.

CNET 60F  MICROSOFT WINDOWS 2003 EXCHANGE SERVER  5 Units
Advisory: CNET 60E.
4 hours lecture, 2 hours laboratory.
This course provides students with the knowledge and skills necessary to install, configure, administer, and support Microsoft Exchange Server 2003. The course provides the information necessary to pass the Microsoft Certification Exam 70-284, Implementing and Managing Microsoft Exchange Server 2003.

CNET 60G  SUPPORTING USERS & TROUBLESHOOTING A MICROSOFT WINDOWS XP OPERATING SYSTEM  4 Units
Advisory: CNET 51H or equivalent.
4 hours lecture, 3 hours laboratory.
This course is to provide individuals who are new to supporting Microsoft Windows XP with the knowledge and skills necessary to troubleshoot basic problems and users will face while running Microsoft Windows XP Professional in an Active Directory network environment, or Windows XP Home edition in a workgroup environment. This is an introductory course designed to provide an overview of operating system concepts and how to troubleshoot Windows XP. The course helps prepare the student for the Microsoft Certification Exam 70-271, Supporting Users and Troubleshooting a Microsoft Windows XP Operating System.

CNET 60H  SUPPORTING USERS & TROUBLESHOOTING DESKTOP APPLICATIONS ON AN MS WINDOWS XP OPERATING SYSTEM  4 Units
Advisory: CNET 51H or equivalent.
4 hours lecture, 3 hours laboratory.
This course is to provide individuals who are new to supporting Microsoft Windows XP with the knowledge and skills necessary to troubleshoot basic problems and users will face while running applications with Microsoft Windows XP Professional in an Active Directory network environment, or Windows XP Home edition in a workgroup environment. This is an introductory course designed to provide an overview of Microsoft Desktop Application concepts and how to troubleshoot those applications in a Windows XP environment. The course helps prepare the student for the Microsoft Certification Exam 70-272, Supporting Users Running Applications on Microsoft Windows XP.

CNET 60J  WINDOWS SCRIPTING FOR SYSTEM ADMINISTRATORS  5 Units
Non-degree applicable credit course.
Advisory: CNET 60A and 60D.
May be taken 3 times for credit.
4 hours lecture, 4 hours terminal time.
This course provides students with the knowledge and skills necessary to write and maintain scripts to automate all aspects of system administration for computers running the Microsoft Windows operating system. It covers scripting languages (the syntax necessary to write a script), scripting hosts (the service which will execute the script), scripting libraries (collections of pre-existing functions which scripts can take advantage of to perform complex tasks) and the interfaces built into the Windows operating system (eg. Windows Management Instrumentation - WMI and Active Directory Services Interfaces - ADSI) which scripts must call in order to manipulate the operating system. This course has been designed for system administrators and does not require an extensive background in programming.

CNET 60K  POWERSHELL SCRIPTING  5 Units
Advisory: CNET 60A, 60C, 60J.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
This course provides students with the knowledge and skills necessary to write and maintain Powershell scripts to automate all aspects of system administration for computers running the Microsoft Windows operating system. In addition to basic Powershell concepts such as Cmdlets, Scripts and Pipelining, this course covers the interfaces built into the Windows operating system (eg. Windows Management Instrumentation - WMI and Active Directory Services Interfaces - ADSI) which scripts must call in order to manipulate the operating system. This course has been designed for system administrators and does not require an extensive background in programming.

CNET 65A  WIRELESS NETWORK ADMINISTRATION  5 Units
Advisory: CNET 50.
4 hours lecture, 2 hours laboratory.
This course provides students with knowledge & skills necessary to install, manage, and support wireless networks. Content includes wireless technology standards, governing bodies, hardware, radio frequency spectrum, antennas, security, site survey, & troubleshooting.

CNET 65B  WIRELESS NETWORK SECURITY  5 Units
Advisory: CNET 50 and 70A.
4 hours lecture, 2 hours laboratory.
This course provides students with the knowledge and skills necessary to detect intrusion within a wireless network, provide a security policy template to prevent future attacks, and be able to implement a variety of hardware and software security solutions.

CNET 65C  WIRELESS NETWORK ANALYSIS  5 Units
Advisory: CNET 50 and 65A.
4 hours lecture, 2 hours laboratory.
This course provides students with the knowledge and skills necessary to analyze and troubleshoot wireless LAN systems. Course content includes installation and configuration of a Cisco System Wireless LAN, IEEE 802.11 frame formats, system architecture, protocol analyzers, and performance variables.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
**COMPUTERS & SOFTWARE TRAINING**

Computers, Technology & Information Systems  
(550) 949-7236  
www.foothill.edu/ctis/

CAST 50  CAREER EXPLORATION USING THE INTERNET  2 Units  
Non-degree applicable credit course.  
Advisory: Familiarity with general computing and email recommended. Not open to students with credit in CRIP 90. Pass/No Pass.  
May be taken 3 times for credit.  
2 hours lecture-laboratory, 1 hour laboratory.  
Exploration of high-tech careers using the resources of the Internet.

CAST 52A  INTRODUCTION TO MACROMEDIA FLASH  5 Units  
Advisory: CIS 50A or 50B, or equivalent; COIN 61 and current Internet technologies (Web browsers, common graphics formats, FTP).  
May be taken 2 times for credit.  
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.  
Introduction to the Macromedia Flash multimedia authoring environment. Hands-on experience developing streaming Web-based multimedia presentations incorporating animation, sound, graphics and interactivity.

CAST 52B  ADVANCED MACROMEDIA FLASH  5 Units  
Advisory: CIS 50A or 50B, or equivalent. COIN 61 and current Internet technologies (Web browsers, common graphics formats, FTP).  
May be taken 3 times for credit.  
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.  
Advanced concepts and techniques of Macromedia Flash. Hands-on experience developing interactive Web-based multimedia presentations incorporating ActionScript, sound and graphics. This course is based on knowledge and principles of Macromedia Flash.

CAST 52P  INTERMEDIATE FLASH: PROJECTS  5 Units  
Advisory: CAST 52A, CIS 50A or 50B or equivalent.  
May be taken 3 times for credit.  
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.  
This is a projects-based Flash course teaching intermediate concepts and techniques of Macromedia Flash from a designer perspective. Basic programming skills will be acquired by those students who have no programming background but want to continue to develop Web technologies using Flash. Hands-on experience developing interactive Web-based multimedia presentations incorporating ActionScript, sound, and graphics will be taught. This course is based on knowledge and principles of Macromedia Flash5 or FlashMX and will prepare students to continue with Advanced Flash programming concepts and projects.

CAST 54A  MICROSOFT VISIO  4 Units  
Advisory: CIS 50A or 50B or equivalent is strongly recommended.  
May be taken 3 times for credit.  
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.  
This course will provide an introduction to Microsoft Visio, enabling students to produce flow charts, drawings, schematics, and documents used in a variety of technical disciplines. This course is specifically intended to teach the critical concepts and skills of using Visio to produce schematics and drawings for documenting networks, and to process flow charts for designing and documenting software applications for IT and business-related uses. This course is intended for IT technical staff and business professionals.

CAST 55A  INTRODUCTION TO ADOBE GOLIVE  4 Units  
Advisory: CIS 50A, or 50B or equivalent. An understanding of basic HTML concepts and practice is expected.  
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours terminal time.  
Introductory concepts and methods of Web page and Web site design using Adobe GoLive. Work with text, graphics, tables and hyperlinks. Smooth integration with other Adobe products including Photoshop and Illustrator.

CAST 56A  INTRODUCTION TO FILEMAKER PRO  4 Units  
May be taken 2 times for credit.  
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours terminal time.  
Introduction to using and designing databases on this popular relational, cross-platform database program. Hands-on experience creating databases structures and interfaces.

CAST 56B  INTERMEDIATE FILEMAKER PRO  4 Units  
Advisory: Completion of CAST 56A or equivalent.  
May be taken 3 times for credit.  
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory  
Conceptualizing and designing databases on this popular relational, cross-platform database program. Hands-on experience creating databases structures and interfaces, with special attention given to design objectives, relational theory, scripting methods and complex calculations. This course will provide real-world techniques and best practices for developers, and demonstrate how to take advantage of new features in FileMaker. Students will gain a comprehensive understanding of topics through reading course materials, in-depth discussion, example exercises, and hands-on practice via a self-directed project.

CAST 58  USING XML SPY  2.5 Units  
Prerequisite: COIN 78.  
Advisory: Familiarity with XML DTDs, schema, XPath, XSL, and XSLT.  
May be taken 3 times for credit.  
1.5 hours lecture-laboratory, 3 hours laboratory.  
Originally designed to solve the World Wide Web’s compatibility problems, XML (eXtensible Markup Language) promotes the separation of data, presentation, and programming logic, and allows you to define your own elements, and it is platform neutral. XML Spy, a software program by Altova, is an Integrated Development Environment (IDE) for the eXtensible Markup Language. It is the most widely used development tool for XML, including all aspects of XML in one powerful and easy-to-use product. This class is designed to be taught as a workshop in three six hour sessions. This hands-on workshop teaches students how to use XML Spy to create, edit, and debug XML documents including schema files and XSL transformations. Starting with a review of XML fundamentals and mark-up, the course moves quickly from validation of XML documents using DTDs and schemas to presentation and transformation of XML documents using style-sheets (XSL and XSLT using the XSLT Designer in XML Spy). Validation (DTDs and Schemas) includes demonstration and hands-on exercises using XML Spy Schema Editor and IE plug-in. Workshop participants will learn how use Altova’s xmlspy® 5 to support modeling, editing, debugging and validating any XML technology, including XML Schema, XSL/XSLT, and SOAP, and WSDL as used in Web services, as well as server-side XML and SOAP.

CAST 63A  INTRODUCTION TO COMPUTER-AIDED DRAFTING USING AUTODESK AUTOCAD  4 Units  
Advisory: Knowledge of drafting fundamentals.  
3 hours lecture, 2 hours lecture-laboratory.  
For students preparing for careers in General Design and Drafting; Architectural Building Design and Engineering; Mechanical Design and Engineering; Civil Design and Engineering; GIS and Mapping; and Visualization and Animation. An introduction to computer graphic systems, equipment and applications using Autodesk software. Special emphasis will be placed on the practical foundation/background to use this software, system and equipment. This course helps to prepare students for Autodesk certification exams.

CAST 63B  ADVANCED COMPUTER-AIDED DRAFTING USING AUTOCAD SOFTWARE  4 Units  
Advisory: CAST 63A or equivalent experience and a working knowledge of parametric solid modeling concepts.  
3 hours lecture, 2 hours lecture-laboratory.  
For students preparing for careers in General Design and Drafting; Architectural Building Design; Mechanical Design and Engineering; Civil Design and Engineering; GIS and Mapping; and Visualization and Animation. This course provides the foundation for a hands-on course that covers basic and advanced AutoCAD software used to create, edit, document, and print parts, assemblies. Special emphasis will be placed on the practical foundation/background to use this software, system and equipment. This course helps to prepare students for Autodesk certification exams.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
CAST 64A  INTRODUCTION TO AUTODESK MECHANICAL DESKTOP 2007 SOFTWARE (AUTODESK INVENTOR PROFESSIONAL 11)  4 Units
Advisory: CAST 63A and knowledge of drafting fundamentals. 3 hours lecture, 2 hours lecture-laboratory.
For students preparing for careers in General Design and Drafting; Mechanical Design and Engineering. An introduction to computer graphic systems, equipment and applications using Autodesk software. This course includes 3D design used in parametric solid part modeling, assembly modeling, surface modeling and engineering modeling and output of 2D engineering drawings. Special emphasis will be placed on the practical foundation/background to use this software, system and equipment. This course helps to prepare students for Autodesk certification exams.

CAST 65A  INTRODUCTION TO AUTODESK ARCHITECTURAL DESKTOP SOFTWARE  4 Units
Advisory: CAST 63A and knowledge of drafting fundamentals. 3 hours lecture, 2 hours lecture-laboratory.
For students preparing for careers in General Design and Drafting; Architectural Building Design and Engineering. An introduction to computer graphic systems, equipment and applications using Autodesk software. Special emphasis will be placed on the practical foundation/background to use this software, system and equipment. This course helps to prepare students for Autodesk certification exams.

CAST 66A  INTRODUCTION TO AUTODESK CIVIL 3D SOFTWARE  4 Units
Advisory: CAST 63A and knowledge of drafting fundamentals. 3 hours lecture, 2 hours lecture-laboratory.
For students preparing for careers in General Design and Drafting; Architectural Building Design and Engineering; Civil Design and Engineering. An introduction to computer graphic systems, equipment and applications using Autodesk software. Special emphasis will be placed on the practical foundation/background to use this software, system and equipment. This course helps to prepare students for Autodesk certification exams.

CAST 70A  INTRODUCTION TO ADOBE PREMIERE  4 Units
Advisory: CIS 50A or equivalent; GID 74 or equivalent. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Introduction to digital video and the production of multimedia using various software tools and hardware configurations. Hands-on experience with creating and editing digital video and integrating video, sound, animation and graphics into multimedia presentations.

CAST 70B  MULTIMEDIA DESIGN & AUTHORING  4 Units
Advisory: CIS 50A or 50B, or equivalent. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Introduction to the principles of interface design, conceptualization, and prototyping of multimedia projects with software tools.

CAST 70C  INTERACTIVE MULTIMEDIA PROJECT  4 Units
Advisory: CAST 52A, 70B or equivalent. May be taken 3 times for credit. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Completion of interactive multimedia projects, including production, testing, and delivery of an original CD-ROM title, kiosk presentation, or interactive multimedia Web site.

CAST 70D  3D MODELING & ANIMATION FOR MULTIMEDIA  4 Units
Advisory: CIS 50A or 50B, or equivalent. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Fundamentals of 3D modeling and animation for multimedia. Hands-on experience with modeling, rendering, and animation; and conversion techniques utilizing QuickTime and other technologies.

CAST 70E  INTRODUCTION TO DVD AUTHORING  4 Units
Advisory: CIS 50A or 50B, or equivalent; familiarity with digital video, digital audio, common graphics formats. May be taken 2 times for credit. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Introduction to DVD authoring environment. Hands-on experience developing DVD-based multimedia presentations incorporating video, animation, sound, graphics and interactivity.

CAST 70G  INTRODUCTION TO MACROMEDIA DIRECTOR  5 Units
Formerly: CAST 70B1
May be taken 3 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory.
Introduction to the Macromedia Director multimedia authoring environment. Hands-on experience developing interactive multimedia presentations incorporating simple animation, sound, graphics and digital video movies. This course is based on knowledge and principles of multimedia design and authoring.

CAST 70H  ADVANCED MACROMEDIA DIRECTOR  5 Units
Formerly: CAST 70B2
May be taken 3 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory.
Advanced concepts and techniques of Macromedia Director and its use in developing interactive multimedia projects. Software capabilities and limitations; hands-on experience. This course is based on knowledge and principles of multimedia authoring utilizing Macromedia Director.

CAST 70J  INTRODUCTION TO ADOBE PREMIERE ELEMENTS  3 Units
May be taken 3 times for credit. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours terminal time.
Introduction to digital video and the production of multimedia using software that combines ease of use with a powerful editing tool. Hands-on experience includes creating and editing digital video and integrating video, sound, animation, and graphics into multimedia presentations. Ideal for professionals and business users as well as hobbyists and home users.

CAST 74G  WEB PUBLISHING TOOLS: DREAMWEAVER  3 Units
Advisory: COIN 60; Familiarity with current Internet technologies (e-mail, Web browsers, common graphics formats, FTP) recommended. Not open to students with credit in COIN 74.
May be taken 2 times for credit. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 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 use platforms. Principles of designing and maintaining efficient and successful Web sites.

CAST 80  SELECTED TOPICS IN SOFTWARE APPLICATIONS  4 Units
May be taken 3 times for credit. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Introduction to various software application technologies as they emerge.

CAST 86A  INTRODUCTION TO ADOBE INDESIGN  4 Units
Advisory: CIS 50A or equivalent. May be taken 3 times for credit. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Introduction to Adobe InDesign and its use in electronic layout and print media problem solving. Hands-on experience with the basic elements and tools of InDesign.

CAST 86B  ADVANCED ADOBE INDESIGN  4 Units
Advisory: CAST 86A.
May be taken 3 times for credit. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Advanced Adobe InDesign is an exploration of the advanced concepts of InDesign in document management, page layout, online and printing applications. Hands-on experience of these concepts.

CAST 89A  INTRODUCTION TO QUARKXPRESS  4 Units
Advisory: CIS 50A or equivalent. May be taken 3 times for credit. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Introduction to QuarkXPress and its use in electronic layout and print media problem solving. Hands-on experience with the basic elements and tools of QuarkXPress.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
CAST 89B  ADVANCED QUARKXPRESS  4 Units
Advisory: CAST 89A or equivalent.
May be taken 3 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Advanced concepts and methods of QuarkXPress and its use in electronic layout, print media, and problem solving. Software capabilities and limitations; hands-on experience.

CAST 90A  INTRODUCTION TO ADOBE ILLUSTRATOR  4 Units
May be taken 3 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Introduction to Adobe Illustrator, a software drawing tool. Hands-on experience with the basic elements and tools of Adobe Illustrator to produce one-page illustrations.

CAST 90B  ADVANCED ADOBE ILLUSTRATOR  4 Units
Advisory: CAST 90A or equivalent.
May be taken 3 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.

CAST 91A  INTRODUCTION TO PAINTER  4 Units
Advisory: CIS 50A or equivalent.
May be taken 3 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
An introduction to Painter software and its use in image-making and image-editing problem solving; hands-on software experience with the basic elements and tools of Painter.

CAST 91B  ADVANCED PAINTER  4 Units
Advisory: CAST 91A or equivalent.
May be taken 3 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Advanced concepts and methods of Painter and its use in image-making, image-editing, and problem solving. Software capabilities and limitations; hands-on experience.

CAST 92A  INTRODUCTION TO ADOBE PHOTOSHOP  4 Units
May be taken 3 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Introduction to Adobe Photoshop, an image processing software tool. Hands-on experience with the basic elements and tools to set up files, manage documents, and perform basic image processing.

CAST 92B  ADVANCED ADOBE PHOTOSHOP  4 Units
May be taken 3 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Advanced concepts and methods of Adobe Photoshop and its use in developing images and creating special effects and problem solving. Software capabilities and limitations; hands-on experience.

CAST 92E  INTRODUCTION TO ADOBE PHOTOSHOP ELEMENTS  4 Units
May be taken 3 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Introduction to Adobe Photoshop Elements, an image management (organizing) and editing software tool. Hands-on experience with the basic features and tools to set up files, manage documents, and perform basic image processing.

CAST 93A  POWERPOINT: EFFECTIVE PRESENTATIONS  4 Units
Advisory: CIS 50A.
May be taken 2 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Provides the student with a step-by-step approach to developing efficient and effective presentations using an assortment of presentation media. The dual focus is on the development and delivery of presentation content and the use of sophisticated computer applications for effective presentations. Topics include organizing the presentation, developing content, use of presentation applications such as Powerpoint and Astound, putting a presentation on the Web and other presentation delivery techniques.

CAST 102  COMPUTER KEYBOARDING SKILLS  .5 Unit
Advisory: Not open to students with credit in CIS 102. Pass/No Pass.
1 hour lecture-laboratory.
Beginning keyboarding course covering the operation of the keyboard using the touch system and the development of correct techniques to interact more efficiently with desktop computers, computer terminals or electronic communication systems. Designed for independent skill learning.

CAST 102B  MICROSOFT WINDOWS: BASICS  4 Units
May be taken 2 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
An overview of computer hardware, software and operating systems concepts. Shows the use of help, launching applications, managing files and folders with Explorer and My Computer as well as handling disk maintenance.

CAST 102C  WINDOWS: HARD DISK MANAGEMENT & UTILITIES  3 Units
1.5 hours lecture, 1.5 hours lecture-laboratory, 1.5 hours laboratory.
Hands-on introduction to hard disk management, memory management, and the use of utility software; virus software, software installation and peripherals.

CAST 102E  PC: VIRUS PROTECTION  3 Units
1.5 hours lecture, 1.5 hours lecture-laboratory, 1.5 hours laboratory.
Introduction to virus protection, detection, and repair for DOS and Windows microcomputer systems. Hands-on experience with installation and maintenance of selected virus software packages.

CAST 104A  MICROSOFT WORD I  3 Units
May be taken 4 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 1.5 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.

CAST 104B  MICROSOFT WORD II  3 Units
May be taken 4 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 1.5 hours laboratory.
Continuation of MS Word. Hands-on experience with Word and its use in file management, the creation of tables, forms, brochures, and newspaper columns; as well as exporting files into Desktop Publishing Packages.

CAST 107D  EXCEL: BASICS  3 Units
May be taken 4 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 1.5 hours laboratory.
One-half hours lecture, 1.5 hours lecture-laboratory, 1.5 hours laboratory.
Introduction to Microsoft Access, a relational database management software tool.

CAST 109F  USING ACCESS  3 Units
Advisory: CIS 50A or 50B, or equivalent.
One-half hours lecture, 1.5 hours lecture-laboratory, 1.5 hours laboratory.
Introduction to Microsoft Access, a relational database management software tool.

CAST 190  DIRECTED STUDY  .5 Unit
CAST 190X  1 Unit
CAST 190Y  1.5 Units
CAST 190Z  2 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass.
Corequisite: Concurrent enrollment in a computer science class or enrollment in any class requiring computer usage.
Any combination of CAST 190–190Z may be taken for a maximum of 12 units.
1.5 hour lecture, 1.5 hours laboratory for each .5 unit of credit.
Computer projects for students who desire or require additional help in attaining comprehension and competency in computer skills.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Credits Applicable</th>
<th>Advisory Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAST 200A</td>
<td>INTRODUCTION TO MICROSOFT OFFICE</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 107A.</td>
</tr>
<tr>
<td>CAST 203A</td>
<td>MICROSOFT WINDOWS BASICS</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 107B.</td>
</tr>
<tr>
<td>CAST 204A</td>
<td>MICROSOFT WORD BASICS</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 107C.</td>
</tr>
<tr>
<td>CAST 206A</td>
<td>PC CONSTRUCTION &amp; OPERATION</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 102C.</td>
</tr>
<tr>
<td>CAST 207A</td>
<td>PC HARD DISK MANAGEMENT</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 92A.</td>
</tr>
<tr>
<td>CAST 221</td>
<td>OVERVIEW OF ADOBE PHOTOSHOP</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 92B.</td>
</tr>
<tr>
<td>CAST 222A</td>
<td>INTRODUCTION TO PRESENTATION SOFTWARE: POWERPOINT</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 92C.</td>
</tr>
<tr>
<td>CAST 230L</td>
<td>OVERVIEW OF MULTIMEDIA</td>
<td>.5</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 92D.</td>
</tr>
<tr>
<td>CAST 232A</td>
<td>MACROMEDIA DIRECTOR I</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 92E.</td>
</tr>
<tr>
<td>CAST 240A</td>
<td>MICROSOFT ACCESS BASICS</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 109F.</td>
</tr>
<tr>
<td>CAST 241A</td>
<td>MICROSOFT EXCEL: WORKSHEETS</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 107A.</td>
</tr>
<tr>
<td>CAST 242A</td>
<td>MICROSOFT EXCEL: DATABASES</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 107B.</td>
</tr>
<tr>
<td>CAST 243A</td>
<td>MICROSOFT EXCEL: CHARTS &amp; MACROS</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 107C.</td>
</tr>
<tr>
<td>CAST 250</td>
<td>FUNDAMENTALS OF PC NETWORKING</td>
<td>1</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 108B.</td>
</tr>
<tr>
<td>CAST 299</td>
<td>OVERVIEW OF ETUDES</td>
<td>2</td>
<td>Non-degree</td>
<td>Open to students with credit in CAST 109D.</td>
</tr>
</tbody>
</table>

**COMPUTERS ON THE INTERNET**

- **COIN 51**
  - **INTERNET TECHNOLOGY & APPLICATIONS:**
  - **INTRODUCTION**
    - Advisory: familiarity with UNIX.
    - May be taken 2 times for credit.
    - 4 hours lecture, 4 hours laboratory.
- **COIN 52**
  - **LEARNING WITH ETUDES**
    - Advisory: Familiarity with an Internet Browser and E-mail.
    - 2 hours lecture, 2 hours laboratory.
    - This course covers what it takes to be successful in an online course; how to use the tools of an ETUDES-NG online course; aspects on online communication; online discussions; submitting online assignments; posting attachments; taking online tests; quizzes and surveys; monitoring your progress; understanding the challenges of an online environment; and figuring out if online learning is for you.
- **COIN 53A**
  - **INTRODUCTION TO ETUDES**
    - Advisory: Familiarity with an Internet Browser and E-mail.
    - 2 hours lecture, 2 hours laboratory.
    - This online course offers an overview of the core tools and basic functionality of ETUDES—a collaboration, teaching, and learning environment. ETUDES offer a complete set of tools to help instructors develop, deliver, supplement, and manage courses over the Internet. A hands-on learning experience, this course takes participants through a step-by-step process to learn best uses of the core tools of the system to support teaching and learning. Participants read tutorials, participate in discussions, and apply the skills taught in a practice site. Additionally, they share best practices and reflect on good uses of the tools.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. FootHill College 2008–2009 www.foothill.edu
COIN 56  E-BUSINESS  5 Units
Advisory: CIS 50A, 50B or equivalent; COIN 61 or equivalent. Familiarity with Internet commerce and E-business; Internet connectivity. May be taken 3 times for credit. 4 hours lecture, 3 hours laboratory. Foundations and principles of electronic commerce and doing business on the Internet. Topics include business models, value and supply chains, business strategy, electronic data interchange (EDI), electronic payments & digital currency, integrating channels of business (walk-in, mail, phone, Internet), e-marketing, intranets and extranets, security risks and legal issues in e-commerce, and Electronic Document Management Systems (EDMS). Current topics about latest e-business trends will be discussed, including peer-to-peer commerce, public and private exchanges, e-hubs and e-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 51 and 56 or equivalent; familiarity with Internet commerce and business models strongly recommended. Corequisite: Requires Internet connectivity. May be taken 3 times for credit. 4 hours lecture 4 hours laboratory. Principles and methods of setting up a functional electronic commerce site on the World Wide Web. Upon completion of a class project estimated to take 40 to 60 hours to complete, students will be able to select software and commerce service providers for creating a Web site with searchable inventory and capable of processing orders and accepting payment, and will create a functional Web store business plan for designing, building, launching, and marketing a WWW commerce site.

COIN 61  PUBLISHING ON THE WEB USING HTML/XHTML  5 Units
Advisory: CIS 50A or equivalent and COIN 51. May be taken 3 times for credit. 4 hours lecture 4 hours laboratory. Introduction to electronic publishing on the Web using HTML and XHTML. Students will produce a multi-page Web site with image, text, and links; tables, frames, forms and simple multimedia. Uploading and modifying documents to a 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 3 times for credit. 4 hours lecture 4 hours laboratory. Exploration of advanced technologies in Web publishing which work with Hypertext Mark-up Language (HTML) and electronic publishing on the Web. Hands-on experience in producing a multi-page Web site using technologies such as Cascading Style Sheets, Multimedia, Dynamic HTML, XML, CGI, JavaScript and other relevant technologies; uploading and modifying Web documents to a Web server; interacting with a client; planning, designing, testing and maintaining a Web site. This course is based on knowledge of navigating the Internet and browsing the Web, and prior experience coding in basic HTML.

COIN 65  USING CASCADING STYLE SHEETS FOR DESIGN  5 Units
Advisory: COIN 61 and 63 strongly advised. May be taken twice for credit. 4 hours lecture, 4 hours laboratory. Cascading Style Sheets (CSS) have changed the focus of web development from presentation to structure. This class will discuss separating web content from formatting so that the resulting markup will render more quickly and, through the use of CSS, be presented in a variety of user agents. The class is designed for students who intend to pursue a web development career or for those who want a more advanced understanding of Web site creation to enhance their own work or career path. Basic concepts include 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  5 Units
Advisory: COIN 70A and CIS 68A or equivalent strongly recommended; familiarity with the concept of web servers, HTTP, browsers, protocols, scripting, basic and other Internet-related subjects. May be taken 2 times for credit. 4 hours lecture, 3 hours laboratory. Practices and procedures in the installation, operation, maintenance, and security of a World Wide Web server.

COIN 67  RUBY ON RAILS - WEB APPLICATION DEVELOPMENT  5 Units
Advisory: Prior programming experience; CIS 52A or database experience. 4 hours lecture, 4 hours laboratory. Introduction to web application development with Ruby on Rails. Students learn how to create database-driven web applications using the Ruby language and the Rails framework.

COIN 68  CGI SCRIPTING USING PERL  5 Units
Advisory: CIS 68A, 68E, COIN 61; CIS 15A or 25A or equivalent. May be taken 3 times for credit. 4 hours lecture, 3 hours laboratory. Introduction to CGI scripting using the PERL programming language. A brief review of PERL followed by an introduction to CGI, web server concepts, and various techniques to create professional Web sites with database interactivity. Prior programming experience in PERL is assumed.

COIN 70A  INTRODUCTION TO PROGRAMMING USING JAVASCRIPT  5 Units
Advisory: COIN 63. May be taken 3 times for credit. 4 hours lecture, 4 hours laboratory. An introduction to computer programming using the JavaScript language. Students will receive a strong foundation of understanding and practice with basic programming concepts including problem solving strategies and syntax including data types, variables, functions, events, control structures, arrays, strings, dates and math and basic form validation. The class is designed for students who intend to pursue careers in web programming or web administration or those who want a basic understanding of programming to enhance other web-related career paths. No prior programming experience is required or expected.

COIN 70B  USING JAVASCRIPT  5 Units
Advisory: COIN 63 and 70A or prior experience with an object oriented programming language (C/C++/JAVA). May be taken 3 times for credit. 4 hours lecture, 4 hours laboratory. 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 71  APPLICATION SOFTWARE DEVELOPMENT WITH AJAX  5 Units
Advisory: COIN 61, 70A or 70B and 78. May be taken 2 times for credit. 4 hours lecture, 4 hours laboratory. Using JavaScript and XML are used to create highly interactive websites that function like desktop applications. You will learn to write advanced JavaScript programs that request XML data from the server “on the fly”, and you will learn to use an existing framework to implement a complex design. Software engineering principles will be stressed, including separating the content from the presentation, programming style and documentation.

COIN 72  WEB MARKETING  4 Units
Advisory: CIS 50A or equivalent; COIN 51, 56, and 61 or equivalent. May be taken 3 times for credit. 1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory time. Marketing concepts and theories on how to market and advertise your Web site effectively on the Internet. Classroom critiques of your site, fine tuning to compete with successful online business models.
COIN 74 WEB PUBLISHING TOOLS: DREAMWEAVER 5 Units
Advisory: COIN 61 or equivalent; familiarity with current Internet technologies (e-mail, Web browsers, common graphics formats, FTP). May be taken twice for credit.
4 hours lecture, 3 hours laboratory.
Principles and methods of creating dynamic, ‘fourth-generation’ Web sites using the latest Web technologies: JavaScript, Cascading Style Sheets, Java, audio, video and animation programs. Techniques of authoring Web pages for different browsers and different end user platforms. Principles of designing and maintaining efficient and successful Web sites.

COIN 74A WEB PUBLISHING TOOLS: DREAMWEAVER BASICS 5 Units
Advisory: CIS 50A, COIN 51 and 61 strongly advised. May be taken twice for credit.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
An introduction to the Dreamweaver environment including principals and methods of planning, designing and creating successful Web sites. The class is designed for students who intend to pursue a Web development career or for those who want a basic understanding of Web site creation to enhance their own work or career path. Basic concepts include creating a basic Web site, remote site access (FTP), text formatting and manipulation, linking, cascading style sheets, graphics (including image maps, rollovers and navigation bars), tables and layout, layers, frames and site marketing using metadata. Techniques of authoring, maintaining and testing for different users, browsers and platforms will be discussed.

COIN 74B WEB PUBLISHING TOOLS: DREAMWEAVER INTERACTIVE 5 Units
Advisory: CIS 50A, 50B, COIN 51, 61 and 74A strongly advised. COIN 70B or an understanding of a programming language. May be taken twice for credit.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
A more in-depth look at the Dreamweaver environment including principals and methods of planning and creating successful interactive Web sites. The class is designed for students who intend to pursue a Web development career or for those who want a more in-depth understanding of the more advanced features of Dreamweaver to enhance their own work or career path. Advanced interactive concepts include client interactions, thorough understanding of the use and issues involved with cascading style sheets, collaborative development, table layout, interactive forms, layers, Dreamweaver behaviors, rich media additions, reusable assets and site marketing. Advanced XHTML and XML practice including RSS feeds, Google XML site maps, and creating and editing XML documents is also reviewed. Techniques of authoring, maintaining and testing for different users, browsers and platforms will be emphasized. A good working knowledge of Dreamweaver 8 and or Studio 8 is expected.

COIN 74C WEB PUBLISHING TOOLS: DREAMWEAVER INTERACTIVE II 5 Units
Advisory: COIN 61, 74A and 74B strongly advised. May be taken twice for credit.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
An advanced exploration of the Dreamweaver environment, and database integration. The class is designed for students who intend to pursue a Web development career and for those who want an in-depth understanding of Web site creation to enhance their work or career path. Concepts investigated include adding interactivity through the use of media objects, database functionality and dynamic pages techniques of authoring, maintaining and testing for different users, accessibility and browsers and platforms will be discussed.

COIN 76 WEB PUBLISHING TOOLS: MULTIMEDIA 5 Units
Advisory: CIS 50A and 50B, COIN 51 and 61. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
Fundamentals of a variety of multimedia publishing tools which may include Flash, Photoshop/Elements, Adobe Acrobat, sound and/or video digitizing software and video editing and processing software. Hands-on experience in producing Web pages which utilize these technologies. This course is based on knowledge of the Internet, HTML, and Web publishing.

COIN 77 EXTENSIBLE MARKUP LANGUAGE (XML) 5 Units
Advisory: COIN 61 or equivalent; ability to program in Java or JavaScript. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
Introduction to Extensible Markup Language (XML) and document structuring. Hands-on experience with XML documents, Document Type Definition (DTD), data parsing with Document Object Model (DOM) and data presentation with Extensible Style Language (XSL) and Cascading Style Sheets (CSS). Survey of recommended XML documents including XHTML, and a brief introduction to RSS, RDF, and XML sitemaps.

COIN 78 INTERNET PROGRAMMING WITH XML 5 Units
Advisory: COIN 78; familiarity with the JAVA programming language, SQL and XML. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
Advanced topics in Internet programming focusing on the use and integration of XML, Java, and database technologies for Web application development. This course is intended for students in the Internet programming discipline and professionals who need to develop hands on programming skills specifically for integrating XML with databases, Java, and development of web services, including the use of SOAP, .Net, and UDDI. This is an advanced course that will cover the most current topics and technologies utilizing XML, with topical focus including B2B (Business to Business integration) and web services. Topics will include an overview of the most current applications and architecture platforms and frameworks used by industry, including implementations in NT, Unix, and Linux environments and vendor strategies.

COIN 78C XML FOR INFORMATICS 5 Units
Advisory: COIN 78.
May be taken 3 times for credit.
3 hours lecture, 1 hour lecture-laboratory, 4 hours laboratory.
The World Wide Web is transitioning from a content Web, to a process Web, to a knowledge Web. This course introduces the Semantic Web and Semantic Web technologies to students with a firm command of XML and an interest in knowledge engineering. Topics include RSS, RDF, XML, 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 RDF (RDF Knowledge Formation), DAML, and Web based inference and ontology engines.

COIN 78D USER INTERFACE DESIGN WITH EXPRESSRESSION BLEND 5 Units
Advisory: CIS 19M, COIN 78.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
Expression Blend is a new tool from Microsoft for designing both Windows and Web user interfaces using XAML, an XML derivative. Blend seamlessly permits the incorporation of audio, video, 2D and 3D vector art, bitmap images and animations into stunning user interfaces. Through data binding and other markup extensions, XAML permits the implementation of a considerable degree of functionality without requiring a full fledged programming language such as C#. At the same time, Blend is able to totally coordinate with Visual Studio so that the same project can be worked on simultaneously by a designer using Blend and by a C# developer using Visual Studio. Blend will ultimately be used both by professional user interface designers and by developers for most WPF (Windows Presentation Foundation) UIs since its feature set for design purposes is considerably richer than the equivalent designer in Visual Studio.

COIN 79 XML FOR BIOINFORMATICS 5 Units
Advisory: COIN 51 or equivalent; BTEC 51A and 52A. May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
Introduction to mark-up languages, including HTML and XML, as a method of gaining practical experience and learning the fundamentals of BioML (Biopolymer Markup Language). This course is intended for students in the bioinformatics discipline who need to understand mark-up languages for encapsulating, transmitting, and presenting biological data on the World Wide Web, with special emphasis placed on interaction and collaboration with bioinformatics databases, and rendering biopolymer data with BiOML.

COIN 80 SELECTED TOPICS IN INTERNET TECHNOLOGY 4 Units
Advisory: COIN 63.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Introduction to various Internet technologies and Web development tools.
COIN 81  INTRODUCTION TO BIOINFORMATICS TOOLS & DATABASES  5 Units
Prerequisite: COIN 51 or equivalent, BTEC 51A and 52A.
May be taken 3 times for credit.
4 hours lecture, 3 hours laboratory.
This practical course provides an introduction to Internet databases, tools and methods used in bioinformatics, emphasizing genomic and protein databases including NCBI, GenBank, SWISS-PROT, SWISS-MODEL, PDB, PIR, and Pfam. Course focus 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 BSMI 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 82  IMAGES FOR THE WEB  4 Units
Advisory: CAST 92A or equivalent.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
Image preparation and design for the Web using Photoshop and other tools. Image acquisition and correction, conversion and optimizing images for the Web with application to various browsers. Software capabilities and limitations; hands-on experience.

COIN 84  SPECIAL WEB PROJECTS  5 Units
Advisory: CIS 50A, 50B, COIN 51, 61, 63.
4 hours lecture, 4 hours laboratory.
Students will create a fully functioning Web site, based on techniques learned in previously taken CAST/COIN classes. Technologies used may include HTML, CSS, JavaScript, graphics or multimedia development, DHTML, CGI or other relevant technologies.

COIN 86  SERVER-SIDE PROGRAMMING WITH JAVASERVER PAGES (JSP)  5 Units
Advisory: CIS 27A and COIN 61 or equivalent; COIN 78; ability to write simple SQL statements highly recommended.
Corequisite: Requires Internet connectivity.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
Concepts and techniques used for creating dynamic Web sites with JSP as the primary programming language. Topics include Server-side Web site programming for creating dynamic and distributed Web sites; Java Serverlets 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 J axle and J run, and overview of their installation and configuration.

COIN 88  USING UML FOR APPLICATION DEVELOPMENT  4 Units
Advisory: Object oriented programming course (Java recommended); hands-on use of Microsoft Visio; CIS 60 or equivalent.
May be taken 3 times for credit.
1.5 hours lecture, 1.5 hours lecture-laboratory, 3 hours laboratory.
This course will provide a basic understanding of visual modeling tools and methods for software application development, focusing on the Unified Modeling Language (UML), Microsoft Visio, Visual Studio, and/or specific industry applications (Rational Rose) will be used to model Web-deployed software applications. Special emphasis will be placed on understanding business process requirements gathering and effective modeling techniques using the UML.

COIN 91  INTRODUCTION TO DATABASE-DRIVEN WEB SITES  5 Units
Advisory: COIN 61 or equivalent; some database experience; working vocabulary of UNIX, LINUX, and Web server technologies is extremely useful but not required.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
Introduction to the principles of database-driven, dynamic Web sites. Emphasis on both the business and technical requirements and solutions for web-database integration. Introduces and compares the most popular tools currently used for constructing database-driven Web sites, from the simplest to the most powerful, including: 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.

COIN 92  DATABASE-DRIVEN Web sites: STEP BY STEP  5 Units
Prerequisite: CIS 52A, COIN 63, 70 and 91.
Advisory: Some background in a programming language such as Visual Basic, JAVA, or PERL.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
An indepth introduction to the practical methods for constructing and deploying database driven, dynamic Web sites. Review of the overall architecture and essential components of database enabled Web site applications; HTML forms and tables, client side scripting languages, Web servers, server side scripting languages, and database servers. Comparison of the most popular Web Server toolsets available for web-database integration, including: Microsoft VB.NET and ASP.NET, Open source PHP and MySQL, JAVA and JSP, and Dreamweaver MX. Lectures are augmented by a series of structured lab exercises to provide students with a hands-on exposure several popular web database integration toolsets.

COIN 93U  COIN EXPERIENTIAL INTERNSHIP  3 Units
May be taken 6 times for credit.
9 hours laboratory.
Off-campus supervised experiential education of COIN students in website creation, E-business, or Web site maintenance. Opportunity for practical application of knowledge, skills and abilities acquired in COIN and related course work. Exposure to varied protocols, methodologies and practices in a professional working environment.

COIN 93V  COIN EXPERIENTIAL INTERNSHIP  4 Units
May be taken 6 times for credit.
12 hours laboratory.
Off-campus supervised experiential education of COIN students in Website creation, E-business, or Web site maintenance. Opportunity for practical application of knowledge, skills and abilities acquired in COIN and related course work. Exposure to varied protocols, methodologies and practices in a professional working environment.

COIN 93W  COIN EXPERIENTIAL INTERNSHIP  6 Units
May be taken 6 times for credit.
18 hours laboratory.
Off-campus supervised experiential education of COIN students in Website creation, E-business, or Web site maintenance. Opportunity for practical application of knowledge, skills and abilities acquired in COIN and related course work. Exposure to varied protocols, methodologies and practices in a professional working environment.

COIN 94  CONSTRUCTING DATA-DRIVEN Web sites WITH PHP & MYSQL  5 Units
Prerequisite: COIN 92.
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. A working knowledge of the Linux operating system is helpful.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
A comprehensive introduction to Open Source web database integration tools which presents a systematic approach to the design, construction, and deployment of dynamic Web sites using the popular Open Source tool PHP and MySQL. Emphasis is on the practical considerations and skills required to develop fully functional database enabled Web sites in a Windows or Linux OS environment. Students will gain hands on skills for Web programming using PHP, PHP: Hypertext Preprocessor, and the MySQL database, formatting and publishing database information residing in the MySQL server and other relational database sources. PHP and MySQL topics will focus on key aspects of dynamically publishing catalog information from a database for electronic commerce including catalog browsing and querying, shopping carts, session management, customer management, and security.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
COIN 96  CONSTRUCTING DATA DRIVEN WEB SITES  5 Units
WITH ASP.NET
Prerequisite: CIS 12A, COIN 66 and 94.
Advisory: Familiarity with the JavaScript programming language; must have a
very good understanding of HTML as well as IIS Web server technology.
May be taken 3 times for credit.
4 hours lecture, 4 hours laboratory.
A comprehensive introduction to .NET web database integration tools which presents
a systematic approach to the design and construction and deployment of dynamic
Web sites using Microsoft's powerful ASP.NET environment. Emphasis is on the
practical considerations and skills required to develop fully functional database
enabled Web sites in a Windows .NET environment. Students will gain hands on
skills for Web database programming using Visual Studio .Net, VB .NET, IIS, ASP
.NET, and MSAccess , SQL Server 2000, or MySQL. Lecture and lab topics will
focus on key aspects of dynamically publishing catalog information from a database
for electronic commerce ñ including catalog browsing and querying, shopping
carts, session management, customer management, and security.

COIN 109  SELECTED BUSINESS TOPICS FOR THE WEB  6 Units
ADVISOR
Advisory: COIN 56, 66 or equivalent.
May be taken 2 times for credit.
6 hours lecture.
Introduction to business and legal issues tailored for the Web administrator. Series of
lectures by experts on topics, including Internet Security. Web-related legal issues,
people skills, management and finance. Provides wide-ranging understanding of
the various non-technical aspects of Internet administration.

COIN 209  NAVIGATING THE INTERNET  1 Unit
Non-degree applicable credit course.
Advisory: Not open to students with credit in COIN 50; familiarity with PC
or Mac recommended.
May be taken 3 times for credit.
1 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
Non-degree applicable credit course.
May be taken 3 times for credit.
.5 hour lecture.
Elementary design and creation of World Wide Web pages. Hands-on experience
creating Web pages.

COIN 211A  USING DIGITAL IMAGES  1 Unit
Non-degree applicable credit course.
Advisory: Not open to students with credit for LINC 257.
May be taken 3 times for credit.
1 hour lecture.
Use your digital images for fun and profit! Learn how to create hard or soft cover
books, calendars, note cards and more to make great gifts or remembrances. Create
collateral materials for use in projects or presentations. Easy quick and fun!

COIN 212  BLOGGING, SYNDICATION & PODCASTING  1 Unit
Non-degree applicable credit course.
Advisory: Not open to student with credit in LINC 283.
May be taken 3 times for credit.
1 hour lecture.
Blogs, RSS, and podcasting have all received a lot of publicity in the popular press
recently. Like many emerging technologies, the expectations are that everyone is just
supposed to know all about them, even without training or learning opportunities. This
class will explain, demonstrate and provide hands-on experience with each of these
technologies. At the end of the class, participants will have their own weblog and first-hand
knowledge and understanding of the power of syndication when used to gather
and disseminate knowledge and information. Using sound-editing software, students
will also create their own podcast and upload it to the web (iPod not necessary).

COOPERATIVE WORK EXPERIENCE EDUCATION

Cooperative Education  (550) 949-7232
www.foothill.edu/coop/

CWE 51  OCCUPATIONAL WORK EXPERIENCE:  1 Unit
CWE 51X  PARALLEL  2 Units
CWE 51Y  3 Units
CWE 51Z  4 Units
Prerequisite: Student must be working in a job related to declared occupational
program or educational goal.
Corequisite: Concurrent enrollment in at least 7 units, including work experience (Fall, Winter and Spring quarters), or in at least one other course
during Summer Session.
Any combination of CWE 51 series and 52 series courses may be taken for a
maximum of 24 units.
50 hours of paid employment or 40 hours of unpaid employment for each
unit of credit.
Identify and assess learning in current job. Introduce career paths within occupational
choice. Learning/performance objectives are agreed upon between student and employer.

CWE 60  OCCUPATIONAL WORK EXPERIENCE:  6 Units
APPRENTICE
Advisory: Apprentices must be working in a job related to declared occupational
program or educational goal.
Corequisite: Concurrent enrollment in at least 7 units, including work experience (Fall, Winter and Spring quarters), or in at least one other course
during Summer Session.
Any combination of CWE 60 series courses may be taken for a maximum
of 24 units.
12 hours paid or unpaid for 18 weeks or equivalent employment per unit of credit.
Identify and assess learning in current job. Introduce career paths within occupational
choice. Learning/performance objectives are agreed upon between apprentice
and employer. The CWE 60 courses are normally taken for an 18 week semester
with concurrent enrollment in an approved apprenticeship program.

CWE 60U  OCCUPATIONAL WORK EXPERIENCE:  6 Units
APPRENTICE
Advisory: Apprentices must be working in a job related to declared occupational
program or educational goal.
Corequisite: Concurrent enrollment in at least 7 units, including work experience (Fall, Winter and Spring quarters), or in at least one other course
during Summer Session.
Any combination of CWE 60U series courses may be taken for a maximum
of 24 units.
50 hours paid or 40 hours unpaid employment per unit of credit.
Identify and assess learning in current job. Introduce career paths within occupational
choice. Learning/performance objectives are agreed upon between apprentice
and employer.

CWE 70  GENERAL WORK EXPERIENCE  1 Unit
CWE 70X  2 Units
CWE 70Y  3 Units
Advisory: Student must be currently employed and obtain approval of work
experience instructional personnel.
Corequisite: Concurrent enrollment in at least 7 units, including work experience (Fall, Winter and Spring quarters), or in at least one other course
during Summer Session.
Any combination of CWE 70 series courses may be taken for a maximum of 9
units, not to exceed 24 units total of any cooperative work experience courses.
50 hours of paid employment or 40 hours of unpaid employment for each
unit of credit.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version
of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu

157
A comprehensive time management plan will be initiated and applied. The components of time management and how they contribute to college success.

How competition with the self and within the college structure contribute to college success. Application of strategies to improve wellness will be administered with an individualistic and group approach.

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.

How competition with the self and within the college structure contribute to college success. A comprehensive time management plan will be initiated and applied.

A comprehensive time management plan will be initiated and applied.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRWR 3A</td>
<td>INTRODUCTION TO SHORT FICTION WRITING</td>
<td>5 Units</td>
<td>Advisory: Eligibility for ENGL 1A. May be taken 2 times for credit. 5 hours lecture, 1 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.</td>
</tr>
<tr>
<td>CRWR 3B</td>
<td>ADVANCED SHORT FICTION WRITING</td>
<td>5 Units</td>
<td>Prerequisite: CRWR 3A. May be taken 2 times for credit. 5 hours lecture, 1 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.</td>
</tr>
<tr>
<td>CRWR 40</td>
<td>INTRODUCTION TO WRITING THE NOVEL</td>
<td>5 Units</td>
<td>Advisory: Eligibility for ENGL 1A. May be taken 4 times for credit. 5 hours lecture, 1 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.</td>
</tr>
<tr>
<td>CRWR 41A</td>
<td>POETRY WRITING</td>
<td>5 Units</td>
<td>Advisory: Eligibility for ENGL 1A. May be taken 2 times for credit. 5 hours lecture, 1 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.</td>
</tr>
<tr>
<td>CRWR 120A</td>
<td>CREATIVE WRITERS' CONFERENCE</td>
<td>1 Unit</td>
<td>Advisory: Pass/No Pass. 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.</td>
</tr>
<tr>
<td>CRWR 120B</td>
<td>CREATIVE WRITERS' CONFERENCE</td>
<td>1 Unit</td>
<td>Advisory: Pass/No Pass. May be taken 3 times for credit. 3 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.</td>
</tr>
</tbody>
</table>
DANCE

Physical Education (650) 949-7741

DANC 1A FUNDAMENTALS OF BALLET I 1 Unit
May be taken 6 times for credit.
3 hours laboratory.
Introduction to the elementary fundamentals of ballet technique and training. Includes the basic vocabulary and practice of barre and center floor exercises.

DANC 1B FUNDAMENTALS OF BALLET II 1 Unit
May be taken 6 times for credit.
3 hours laboratory.
Continuation into the intermediate/advanced fundamentals of ballet technique and training. Includes the intermediate/advanced vocabulary and practice of barre and center floor exercises.

DANC 2 BEGINNING MODERN DANCE 1 Unit
Formerly: H P 32
May be taken 6 times for credit.
3 hours laboratory.
This course is designed to develop the student’s ability to integrate expressive body movement in a creative dance form. Fundamental modern dance locomotor and axial movement are presented and practiced in class.

DANC 3A BEGINNING JAZZ DANCE 1 Unit
Formerly: H P 33
May be taken 6 times for credit.
3 hours laboratory.
Introduction to the fundamental technique of jazz dance. Emphasis is placed on class participation so that students may develop their knowledge and understanding of the basic principles of jazz dancing, including warm-up, stretch, isolations and choreography.

DANC 3B INTERMEDIATE JAZZ DANCE 1 Unit
Formerly: H P 33A
May be taken 6 times for credit.
3 hours laboratory.
Designed to give students an opportunity to practice and perfect intermediate jazz techniques. Emphasis on techniques presented as well as information on historical and stylistic perspectives of this dance form.

DANC 4 BALLROOM & SOCIAL DANCE 1 Unit
May be taken 6 times for credit.
3 hours laboratory.
Introduction to ballroom and social dance techniques. Instruction and practice in Swing, Cha-Cha, Waltz, Fox Trot, Rhumba and Tango dances.

DANC 5 WORLD DANCE 1 Unit
Formerly: H P 47D
May be taken 6 times for credit.
3 hours laboratory.
Introduction to the history and origins of multicultural dance forms. Students will learn the basic steps, combinations, and finished dances of many traditional world dance forms.

DANC 6 BEGINNING COUNTRY-WESTERN LINE DANCING 1 Unit
Formerly: H P 47
May be taken 6 times for credit.
4 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.

DANC 7 CHOREOGRAPHY 1 Unit
Formerly: H P 34
May be taken 6 times for credit.
3 hours laboratory.
Exploration of the basic principles and theories of choreography and composition and the tools for defining the creative process.

DANC 8 DANCE PRODUCTION: REHEARSAL & PERFORMANCE 2 Units
Formerly: H P 52
May be taken 6 times for credit.
6 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.

DANC 9 MOVEMENT FOR ACTORS 2 Units
Formerly: H P 72
May be taken 6 times for credit.
4 hours lecture-laboratory.
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.

DANC 10 TOPICS IN DANCE HISTORY 4 Units
Formerly: H P 70
4 hours lecture.
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.

DANC 11 FOOTHILL REPERTORY DANCE COMPANY 3 Units
Formerly: H P 40P
May be taken 6 times for credit.
15 hours lecture-laboratory.
Supervised participation in scheduled productions of the dance department, in cast or crew. A laboratory course for the resident and touring company of the college, including instruction on the how to of a full-scale theatrical production for public performance.

DENTAL ASSISTING

Biological & Health Sciences (650) 949-7351 www.foothill.edu/bio/programs/dentala/

D A 50 ORIENTATION TO DENTAL ASSISTING 2.5 Units
2.5 hours lecture, 1 hour collaborative learning.
Preview of dental practice, including specialties, history, professional and legal responsibilities and the role of the dental auxiliary; dental forms, record keeping, patient communication and office personnel relations.

D A 51A INTRODUCTION TO CHAIRSIDE DENTAL ASSISTING 5.5 Units
2.5 hours lecture, 1 hour seminar, 9 hours laboratory, 8 hours field experience
Introduction to chairside assisting; use and care of dental equipment, patient management, instrument identification; overview of common dental procedures such as composite, amalgam, partials, dentures, root canals, crown and bridge appointments; manipulation of dental materials commonly prepared or used by the dental assistant including temporary dressings, Impression materials, cement bases and liners, topical agents, composites, resins and amalgams.

D A 51B INTERMEDIATE CLINICAL DENTAL ASSISTING 2 Units
1.5 hours lecture, 2 hours laboratory.
Continuation of techniques introduced in D A 51A; periodontal and oral surgery procedures. Registered dental assistant orthodontic functions, fabrication of bleaching splints, dental sealants.

D A 51C ADVANCED DENTAL ASSISTING SKILLS 3 Units
2.5 hours lecture, 4 hours laboratory.
Continuation of techniques introduced in D A 51A and 51B to include pulp vitality testing, fluoride administration, intrarural/extraoral exam, polishing removable partial and full dentures, dental implants, and pedodontic procedures. Theory and practice of coronal polishing.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
D A 53A  INTRODUCTION TO RADIOGRAPHY  3 Units
Prerequisite: Admission to Dental Assisting Program.
2 hours lecture, 3 hours laboratory.
Production, characteristics, and biologic effects of radiation; function, components, and operation of the X-ray unit; radiation protection and monitoring; chemistry and techniques associated with X-ray film and developing solutions. Review of anatomic landmarks, introduction to intraoral long-cone radiographic techniques in the bitewing, periapical and occlusal surveys.

D A 53B  DENTAL RADIOGRAPHY  2 Units
Prerequisite: D A 53A.
1 hour lecture, 3 hours laboratory.
Intraoral techniques continued; evaluation of film quality, recognition of anomalies and variations in tissue density, specialized procedures for the pedodontic, endodontic, and edentulous patient, forensic and legal considerations, and principles of panoramic and cephalometric film.

D A 53C  DENTAL RADIOGRAPHY  1 Unit
Prerequisite: D A 53A and 53B.
3 hours laboratory.
Intraoral techniques and film evaluation continued; film interpretation for dental charting; introduction to short cone and bisecting angle radiographic techniques.

D A 56  DENTAL HEALTH EDUCATION  1 Unit
1 hour lecture, 1 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.

D A 57  OFFICE EMERGENCY PROCEDURES  2 Units
2 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 58  SPECIALTY PRACTICE PROCEDURES  1 Unit
Advisory: Admission to the Dental Assisting Program.
1 hour lecture.
Familiarization with the scope of practice in both general and specialty dental office settings. The emphasis of this survey class will be on the role of the auxiliary personnel in each of the different types of dental practices.

D A 60A  DENTAL OFFICE BUSINESS PRACTICES  2 Units
2 hours lecture, 1 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 60B  DENTAL OFFICE BUSINESS PRACTICES  3 Units
3 hours lecture, 1 hour laboratory.
Introduction to purchasing, inventory and cost control; banking, payroll and tax procedures; resume writing and interviewing techniques. Includes billing and insurance procedures, collection of accounts, treatment plans and case presentations, bookkeeping and accounting procedures. Instruction in both manual and computer applications.

D A 61  ULTRASONIC SCALING FOR THE RDA  1.5 Units
Prerequisite: D A 51A, 51B, or equivalent.
1 hour lecture, 1.5 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 62A  DENTAL SCIENCES  2 Units
2 hours lecture, 1 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 62B  DENTAL SCIENCES  2 Units
2 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
2 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
1 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
1.5 hours lecture, 1 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 biobehazardous waste or materials.

D A 73  DENTAL ASSISTING SUPERVISED CLINIC  3 Units
Prerequisite: DA 51A.
16 hours clinic, 2 hours field study.
Continuation of techniques introduced in D A 51A; supervised clinical experience in externship environment, chairside dental assisting in general practice and specialty clinics at the UCSF School of Dentistry.

D A 74  DENTAL ASSISTING CLINICAL PRACTICE  3 Units
17 hours clinic, 2 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: DA 51A and 51B.
May be taken 3 times for credit.
1 hour lecture, 3 hours laboratory, 2 hours field study.
Information necessary for completion of requirements for national certification and Registered Dental Assisting (RDA) licensure in the State of California. Review of chairside dental assisting procedures to prepare for written and practical examinations. Sizing of stainless steel crowns. Fabrication of temporary crowns and Class II temporary restorations.

D A 190  DIRECTED STUDY  .5 Unit
D A 190X  1 Unit
D A 190Y  1.5 Units
D A 190Z  2 Units
Advisory: Pass/No Pass.
Any combination of D A 190–190Z may be taken for a maximum of 6 units.
.5 hour lecture, 1.5 hours laboratory for each .5 unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009   www.foothill.edu
DENTAL HYGIENE

Biological & Health Sciences  (650) 949-7335 www.foothill.edu/bio/programs/dentah/

D H 50  ORIENTATION TO DENTAL HYGIENE  1 Unit
Prerequisite: Admission to Dental Hygiene Program.
1.5 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. Strategies & skills for student success in the dental hygiene program.

D H 52A  ORAL BIOLOGY  3 Units
Prerequisite: Admission to Dental Hygiene Program.
2 hours lecture, 2 hours laboratory.
Discussion of the anatomy and identification of the teeth, the eruption sequence, normal occlusion, and classification of occlusion. Anatomy of the skull, arteries, veins, and lymphatics, musculature and nervous structures of the head and neck.

D H 52B  ORAL BIOLOGY  3 Units
Prerequisite: D H 52A.
2 hours lecture, 2 hours laboratory.
The embryologic development of the structures and tissues of the head, neck, teeth and oral cavity; histology of the hard and soft tissues of the oral cavity. Anatomy of the tooth crown, root and pulp; development and structural defects involving the oral cavity and the teeth. The normal periodontal tissues, oral mucous membranes, and salivary glands.

D H 53  ASSESSMENT PROCEDURES IN THE DENTAL HYGIENE PROCESS  4 Units
Prerequisite: Admission to Dental Hygiene Program.
4 hours lecture.
First in a 3 course series in dental hygiene theory and practice. This course will focus on the principles of assessment techniques as the first phase of the dental hygiene process of assessment, planning, implementation, and evaluation. The rationale for collection of assessment data, and associated clinical procedures will be discussed. Introduces infectious diseases important to dentistry, hazardous materials management, and waste management, and rules of regulatory agencies (OSHA, CDC and ADA).

D H 54  PRE-CLINICAL DENTAL HYGIENE  4 Units
Prerequisite: Admission to Dental Hygiene Program.
1 hour lecture, 9 hours laboratory, 3 hours field experience.
First in a seven-course series in dental hygiene clinical practices. Integration of the scientific and clinical principles underlying the practice of dental hygiene. Clinical procedures and techniques for patient assessment, including prevention of disease transmission, health history, extra-intraoral examination, gingival evaluation and periodontal examination. Operation of the dental unit, and basic instrumentation techniques for removal of plaque and calculus will also be discussed. Field experiences reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting.

D H 55A  FUNDAMENTALS OF PATHOLOGY  2 Units
Corequisite: D H 52B.
2 hours lecture.
Introduction to general pathology and specific pathologic processes, repair, healing, and regressive changes. Social significance of pathology.

D H 55B  FUNDAMENTALS OF PATHOLOGY  2 Units
Corequisite: D H 55A.
2 hours lecture.
Pathology of the head, neck, and oral structures. Developmental conditions, diseases of bacterial and viral origin, neoplasms of the oral cavity.

D H 56  APPLIED PHARMACOLOGY IN DENTISTRY  2 Units
Prerequisite: BIOL 46, D H 61A or licensed dental hygienist or dentist.
2 hours lecture.
A study of drugs by groups with special emphasis on those used in dentistry, including their physical and chemical properties, dosage and therapeutic effects.

D H 57A  PERIODONTICS  2 Units
Corequisite: D H 52B.
2 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
Corequisite: D H 57A.
2 hours lecture.

D H 57C  PERIODONTICS  2 Units
Prerequisite: D H 57B.
2 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
Prerequisite: Admission to the Dental Hygiene Program.
1 hour lecture, 1 hour field experience.
Dental Procedures in the specialty office with emphasis on dental auxiliary duties and collaboration with dental specialties for comprehensive patient/client care.

D H 60A  INTRODUCTION TO DENTAL RADIOGRAPHY  2 Units
Prerequisite: Admission to Dental Hygiene Program.
Two hour lecture.
Production characteristics and biologic effects of radiation, function, components, and operation of the X-ray unit. Radiation protection and monitoring of personnel. Chemistry and techniques associated with X-ray film and developing solutions. Review of anatomic landmarks and principles of shadow casting.

D H 60B  DENTAL RADIOGRAPHY  1 Unit
Prerequisite: Completion of D H 60A.
3 hours laboratory.
Introduction to intra-oral techniques in dental radiography, including film exposure, processing, and mounting. Group and individual evaluation and interpretation of films exposed on mannequin and lab partner. Continuation of exposure of dental radiographs on clinical patients.

D H 60C  DENTAL RADIOGRAPHY  .5 Unit
Corequisite: D H 60B.
1 hour lecture-laboratory.
Practice of dental radiographic techniques on clinic patients, including the exposure, processing, and mounting of films. Continuation of group and individual evaluation and interpretation of films exposed in clinic.

D H 60D  DENTAL RADIOGRAPHY  .5 Unit
Prerequisite: Admission to Dental Hygiene Program.
1 hour lecture.
Production characteristics and biologic effects of radiation, function, components, and operation of the X-ray unit. Radiation protection and monitoring of personnel. Chemistry and techniques associated with X-ray film and developing solutions. Review of anatomic landmarks and principles of shadow casting.

D H 60E  DENTAL RADIOGRAPHY  .5 Unit
Prerequisite: D H 60D.
1 hour lecture-laboratory.
Continuation of film exposure, processing and mounting; group-individual evaluation and interpretations of film.
D H 61A  CLINICAL TECHNIQUE  5 Units
Prerequisite: Completion of D H 52A and 54 or completion of a Dental Hygiene Program with equivalent courses.
3 hours lecture, 9 hours laboratory, 3 hours field experience.
Continuation of dental hygiene clinical practice and instrumentation techniques. Comprehensive periodontal examination, scaling and root planing, sharpening. Adjunctive dental hygiene procedures: fluoride, selective coronal polishing. Clinical activities utilize typodonts and student partners. Supportive labs and observation to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting for DH 61A.

D H 61B  INTRODUCTION TO CLINIC  4 Units
Prerequisite: Completion of D H 61A and 52B with grade of “C” or higher; Possession of a current CPR certificate.
3 hours lecture, 6 hours clinic, 3 hours field experience.
Continuation of clinical dental hygiene practice. Assessing, planning, and implementing dental hygiene care on patients in a clinical setting. Dental hygiene care for patients with special needs. Development of progress in clinical performance with each successive academic period.

D H 62A  CLINICAL DENTAL HYGIENE  3.5 Units
Prerequisite: D H 61B.
1 hour lecture, 9 hours clinic, 1 hour field experience.
Continuation of dental hygiene clinical practice. Assessing, planning, implementing, and evaluating dental hygiene care on patients in a clinical setting. Development of progress in clinical performance with each successive academic period.

D H 62B  CLINICAL DENTAL HYGIENE  5 Units
Prerequisite: D H 57A and 61A.
1 hour lecture, 15 hours clinic, 3 hours field experience.
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 62C  CLINICAL DENTAL HYGIENE  5 Units
Prerequisite: D H 62B.
1 hour lecture, 15 hours clinic, 3 hours field experience.
Continuation of clinical dental hygiene 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, soft tissue curettage, and administration of local anesthetic.

D H 62D  CLINICAL DENTAL HYGIENE  5 Units
Prerequisite: D H 62C.
1 hour lecture, 15 hours clinic, 3 hours field experience.

D H 63C  COMMUNITY DENTAL HEALTH  3 Units
Prerequisite: D H 73.
2 hours lecture, 8 hours field experience.
Introduction to community dental health problems and school dental health programs; development and implementation of a community dental health program.

D H 63D  COMMUNITY DENTAL HEALTH  3 Units
Prerequisite: D H 63C.
2 hours lecture, 8 hours field experience.
Continuation of developing a community dental health program, evaluation of local, state, and federal departments of public health service, research and statistics in public health, and meeting the demand for dental health care.

D H 64  ETHICS, LAW & DENTAL OFFICE PRACTICES  2 Units
Advisory: D H 63D recommended.
2 hours lecture.
Ethics, jurisprudence and practice aspects of private practice.

D H 65  CLINICAL LOCAL ANESTHESIA  2.5 Units
Prerequisite: Completion of DH 55A, 51B, or completion of Dental Hygiene Program with equivalent courses. Possession of current CPR certificate.
2 hours lecture, 1.5 hours laboratory.
Review of pharmacology, anatomy, physiology, and emergency procedures associated with local anesthetic procedures. Preparation for and administration of conduction and infiltration anesthesia in dental procedures. Laboratory and clinical experience in administration.

D H 66  SOFT TISSUE CURETTAGE  1 Unit
Prerequisite: D H 65.
1 hour lecture.
Training for the dental hygiene student or dental hygienist in performing soft tissue curettage.

D H 67  NITROUS OXIDE/OXYGEN ANALGESIA  1 Unit
2 hours lecture-laboratory.
Training for the dental hygiene student or dental hygienist in performing nitrous oxide/oxygen analgesia.

D H 68A  RADIOGRAPHIC INTERPRETATION A  2 Units
Prerequisite: D H 60A.
2 hours lecture.
Continued experiences in the interpretation of intraoral and panoramic radiographs, including identification of normal and non-normal structures, radiographic considerations of bone and teeth and signs of pathology. Identification and interpretation of radiographic caries, periodontal disease, trauma, and dental anomalies. Introduction to digital radiography.

D H 68B  RADIOGRAPHIC INTERPRETATION B  1 Unit
Prerequisite: D H 60A.
1 hour lecture.
Advanced radiographic interpretation utilizing intraoral panoramic, cephalometric, and other extraoral radiographs. Discussion of future trends in radiographic imaging.

D H 71  OFFICE EMERGENCY PROCEDURES  2 Units
Prerequisite: Admission to Dental Hygiene Program.
Advisory: Not open to students with credit in D A 57.
2 hours lecture.
This course is a study of common medical emergencies that may occur during delivery of dental care. Emphasis is placed on methods to prevent emergencies from occurring and procedures to manage emergency situations. Ethical and legal aspects in assisting during emergencies are also discussed.

D H 72  DENTAL MATERIALS  3 Units
Prerequisite: Admission to Dental Hygiene Program.
2 hours lecture, 3 hours laboratory.
Properties of materials, characteristics and manipulation of impression materials, gypsum products, investment, cements, resins, metallic and non-metallic restorative materials.

D H 73  DENTAL HEALTH EDUCATION  2 Units
Advisory: D H 53 and PSYC 1 recommended.
2 hours lecture.
Fundamentals of patient education. Include communication theory, development of client/counselor relationships, mechanical plaque removal techniques, antimicrobial therapies, patient motivation with particular attention to psychological, social, and economic factors. Introduction to nutritional counseling, tobacco cessation, critique of dental literature, and evaluation of dental health products.

D H 75A  CLINICAL DENTAL HYGIENE THEORY  1.5 Units
Corequisite: Concurrent enrollment in the Dental Hygiene Program.
1 hour lecture, 3 hours laboratory.
Discussion and demonstration of supplement of 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 DH 62B.
D H 75B  CLINICAL DENTAL HYGIENE THEORY  1.5 Units
Corequisite: Concurrent enrollment in Dental Hygiene Program.
1 hour lecture, 3 hours laboratory.
Discussion and demonstration of supplemental dental hygiene functions, amalgam
overhang removal, orthodontic therapy and dental hygiene, advanced instrumentation
technique, air polishing, advanced local anesthesia delivery techniques, implants
in dentistry and new technology in dental hygiene. Supportive course to reinforce
and amplify the knowledge and skills needed to perform dental hygiene procedures
in the clinical setting for D H 62C.

D H 75C  CLINICAL DENTAL HYGIENE THEORY  1.5 Units
Corequisite: Concurrent enrollment in the Dental Hygiene Program.
1 hour lecture, skills laboratory.
This course is designed to aid the student in identifying an appropriate patient
for the California State Board Exam for Dental Hygienists and in identifying and anticipating methods which will influence a successful state board experience.
Supportive course to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures.

D H 85  SPECIAL TOPICS IN DENTAL HYGIENE  1 Unit
Prerequisite: D H 55B and 62B.
May be taken 6 times for credit.
1 hour lecture.
New developments in dentistry which affect the practice of dental hygiene;
information necessary for completion of requirements for national certification
and licensure in the State of California.

D H 86  CALIFORNIA STATE BOARD PREPARATION  1 Unit
Prerequisite: Completion of D H 62D or equivalent.
Advisory: Pass/No Pass.
May be taken 2 times for credit.
.5 hour lecture, 2 hours laboratory.
This course is designed to aid the student in identifying an appropriate patient
for the California State Board Exam for Dental Hygienists and in identifying and anticipating methods which will influence a successful state board experience.

D H 190  DIRECTED STUDY  .5 Unit
D H 190X  1 Unit
D H 190Y  1.5 Units
D H 190Z  2 Units
Advisory: Pass/No Pass.
Any combination of D H 190–190Z may be taken for a maximum of 6 units.
.5 hour lecture, 1.5 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 200L  INTRODUCTION TO DENTAL HYGIENE  1.5 Units
3 hours lecture-laboratory.
Introduction to the profession of dental hygiene. Emphasis on dental terminology,
communication skills, licensure requirements, professional standards, and clinical and lab techniques related to dental hygiene clinical practice.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
DMS 55A OBSTETRICS 2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
2 hours lecture, 1 hour internet skills.
Normal fetal growth and sonographic measurements with correlation to accepted standards. Development of the placenta, amniotic fluid and cord. Abnormalities, pathology and maternal complications.

DMS 55B OBSTETRICS 2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
2 hours lecture, 1 hour internet skills.
Advanced obstetrical sonography. Abnormal fetal growth and sonographic measurements with correlations to accepted standards. Abnormalities, pathology and maternal complications.

DMS 56A VASCULAR SONOGRAPHY 3 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program.
3 hours lecture.
Vascular terminology and physical principles specific to hemodynamics including the principles and interpretation of frequency spectrum analysis. Arterial, venous, cerebrovascular and abdominal applications related to vascular technology. Normal, abnormal and pathologic states of the human vascular system.

DMS 56B ADVANCED APPLICATIONS OF VASCULAR TECHNOLOGY 3 Units
Prerequisite: DMS 56A and 6 months full-time clinical experience in vascular sonography be completed prior to enrollment or equivalent. May be taken 3 times for credit.
3 hours lecture.
Instruction includes the advanced principles & theory of noninvasive vascular technology. This course will focus on a comprehensive study of arterial, venous and cerebrovascular evaluations. It is designed to help prepare individuals for the National Board for credentialing as a Registered Vascular Technologist.

DMS 60A CRITIQUE & PATHOLOGY 2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
2 hours lecture, 2 hours internet research.
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Emphasis on communication skills via written and oral case presentations and critiques.

DMS 60B CRITIQUE & PATHOLOGY 1 Unit
Prerequisite: Admission to Diagnostic Medical Sonography Program.
1 hour lecture, 1 hour internet research.
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on abdominal subjects.

DMS 60C CRITIQUE & PATHOLOGY 1 Unit
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
1 hour lecture, 1 hour internet research.
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on gynecological subjects.

DMS 60D CRITIQUE & PATHOLOGY 1 Unit
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
1 hour lecture, 1 hour internet research.
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on obstetrical subjects.

DMS 60E CRITIQUE & PATHOLOGY 1 Unit
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
1 hour lecture, 1 hour internet research.
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on superficial parts, pediatric, neonatal and vascular subjects.

DMS 60F CRITIQUE & PATHOLOGY 1 Unit
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
1 hour lecture, 1 hour internet research.
Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on superficial parts, pediatric, neonatal and vascular subjects.

DMS 70A CLINICAL PRECEPTORSHIP 8.5 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program.
35 hours laboratory, 3 hours collaborative learning.
A continuation of DMS 72A. This preceptorship is to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. The major emphasis is on abdominal and gynecological examinations as to delineate complete anatomic and functional information for interpretation.

DMS 70B CLINICAL PRECEPTORSHIP 8 Units
Prerequisite: DMS 70A.
35 hours laboratory, 1 hour internet skills, 1 hour multimedia, 1 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 obstetrics, gynecology, and higher level of abdominal examinations.

DMS 70C CLINICAL PRECEPTORSHIP 8 Units
Prerequisite: DMS 70B.
32 hours laboratory, 1 hour internet skills, 1 hour multimedia, 1 hour collaborative learning.
Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. The major emphasis is on advanced abdominal, obstetrics, and vascular sonography.

DMS 70D CLINICAL PRECEPTORSHIP 8 Units
Prerequisite: DMS 70C.
32 hours laboratory, 1 hour internet skills, 1 hour multimedia, 1 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 focus is on terminal competencies leading to program completion.

DMS 70E CLINICAL PRECEPTORSHIP 8.5 Units
Prerequisite: DMS 70D.
32 hours laboratory, 1 hour internet skills, 1 hour multimedia, 1 hour collaborative learning.
Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on the advanced mastery of knowledge, skills, and abilities required performing all types of sonographic studies and procedures.

DMS 72A DIAGNOSTIC MEDICAL SONOGRAPHY PROCEDURES & APPLICATIONS 8 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program.
1 hour lecture, 32 hours laboratory.
Instruction to develop the fundamental skills, procedures and applications for sonographic image acquisition. Includes instruction in establishing technical quality, interpretation, analysis, and case presentation. Includes hands-on participation in a structured lab setting with emphasis on simulation and live scanning exercises plus clinical preceptorship.

DMS 72E DIAGNOSTIC MEDICAL SONOGRAPHY PROCEDURES & APPLICATIONS 2 Units
Prerequisite: Admission to Diagnostic Medical Sonography Program.
1 hour lecture, 3 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMS 80A</td>
<td>ADVANCED SONOGRAPHIC PRINCIPLES</td>
<td>3</td>
</tr>
<tr>
<td>DMS 190</td>
<td>DIRECTED STUDY</td>
<td>0.5</td>
</tr>
<tr>
<td>DMS 190X</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>DMS 190Y</td>
<td></td>
<td>1.5</td>
</tr>
<tr>
<td>DMS 190Z</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>ECON 1A</td>
<td>PRINCIPLES OF MACROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 1B</td>
<td>PRINCIPLES OF MICROECONOMICS</td>
<td>5</td>
</tr>
<tr>
<td>ECON 1C</td>
<td>SPOTLIGHT ON BUSINESS</td>
<td>1</td>
</tr>
<tr>
<td>ECON 1D</td>
<td>STUDY OF POLITICAL ECONOMICS</td>
<td>1</td>
</tr>
<tr>
<td>ECON 1E</td>
<td>HISTORICAL AND CONTEMPORARY ECONOMY</td>
<td>1</td>
</tr>
<tr>
<td>ECON 1F</td>
<td>HONORS INSTITUTION IN ECONOMICS</td>
<td>1</td>
</tr>
<tr>
<td>ECON 1G</td>
<td>DEPARTMENT HONORS PROJECTS IN ECONOMICS</td>
<td>1</td>
</tr>
</tbody>
</table>

**ECON 1**
- **PRINCIPLES OF MACROECONOMICS**
  - Advisory: Eligibility for ENGL 1A or ESL 26; MATH 220.
  - 5 hours lecture, 1 hour laboratory.
- **PRINCIPLES OF MICROECONOMICS**
  - Advisory: Eligibility for ENGL 1A or ESL 26; MATH 220.
  - 5 hours lecture, 1 hour laboratory.

**ECON 25**
- **INTRODUCTION TO THE GLOBAL ECONOMY**
  - 4 hours lecture.
- **HONORS INSTITUTE SEMINAR IN ECONOMICS**
  - Formerly: ECON 34
  - Prerequisite: Honors Institute participant.
  - 1 hour lecture.

**ECON 35**
- **DEPARTMENT HONORS PROJECTS IN ECONOMICS**
  - May be taken 6 times for credit.
  - 1 hour lecture.

**EDUC 50**
- **PRINCIPLES OF EDUCATION: THE TEACHING CHALLENGE**
  - 4 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 hours lecture.
  - Non-degree applicable credit course.
  - Advisory: Teaching experience recommended; online teaching preferred.

**EDUC 101**
- **CYBER TEACHERS INSTITUTE**
  - 2 hours lecture.
  - Non-degree applicable credit course.

**EDUC 102**
- **ADVANCED CYBER TEACHERS INSTITUTE**
  - 2 hours lecture.

**EDUC 103**
- **CURRENT ISSUES IN ONLINE LEARNING**
  - 2 hours lecture.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
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.

EMT 305 EMERGENCY MEDICAL TECHNICIAN: I 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.

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-Basic who serves as a vital link in the chain of the health care team. This course includes all skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department, or other specialized service.

EMT 306 MOBILE INTENSIVE CARE PARAMEDIC 11 Units  
Program: Cognitive, Psychomotor & Affective IIA

Formerly: EMT 100B
Prerequisite: Successful completion of EMT 60A and 60B.
Advisory: Not open to students with credit in EMT 100B.
Corequisites: EMT 61B, 61A.
11 hours lecture.
The cognitive and affective basis for EMT students wishing to become EMT paramedics. The paramedic: anatomy and physiology; pharmacology; ambulance 911 call simulations and case studies; blood glucose analysis; hypoxia; respiratory, cardiac, gastrointestinal, renal & urologic, hematologic, environmental, emergency, toxicology; substance abuse and poisoning; allergies and anaphylaxis; infectious and communicable diseases, and pediatric advanced life support.

EMT 61B MOBILE INTENSIVE CARE PARAMEDIC 8.5 Units  
Program: Cognitive, Affective & Psychomotor IIB

Formerly: EMT 100B
Prerequisite: EMT 60A and 60B.
Advisory: Not open to students with credit in EMT 100B.
Corequisite: EMT 61A.
5.5 hours lecture, 4 hours lecture/laboratory, 3 hours laboratory.
The cognitive, psychomotor, and affective basis for EMT students wishing to become EMT paramedics. The paramedic: anatomy and physiology; respiratory 911 call simulations and case studies; nebulizer/BVM set-up; pleural decompression; digital intubation; foreign body airway obstruction; neurological 911 call simulations and case studies; blood glucose analysis; mental evaluation; pharmacology; pediatric advanced life support ambulance 911 call simulations and case studies; non-traumatic abdominal ambulance 911 call simulations and case studies; bleeding control & shock management; pressure infusers; intubation with spinal immobilization; intravenous access; overdose and poisoning ambulance 911 call simulations and case studies.
EMTP 62A MOBILE INTENSIVE CARE PARAMEDIC 11 Units
PROGRAM: COGNITIVE & AFFECTIVE IIIA
Formerly: EMTP 100C
Prerequisite: EMTP 60A, 60B, 61A, and 61B.
Advisory: Not open to students with credit in EMTP 100C.
Corequisite: EMTP 62B.
11 hours lecture.
The cognitive and affective basis for EMT students wishing to become EMT paramedics.
The paramedic: anatomy and physiology; pharmacology; ambulance operations; medical incident command; terrorism and weapons of mass destruction; rescue awareness and operations hazardous material incidents; crime scene awareness; ambulance 911 call simulations and case studies for the following topics: prehospital trauma life support; neonatology; pediatrics; geriatrics; abuse, neglect, and assault; gynecology; obstetrics; patients with special challenges; chronic care patients.

EMTP 62B MOBILE INTENSIVE CARE PARAMEDIC 8.5 Units
PROGRAM: COGNITIVE, AFFECTIVE & PSYCHOMOTOR IIIB
Prerequisite: EMTP 60A, 60B, 61A, and 61B.
Corequisite: EMTP 62A.
5.5 hours lecture, 4 hours lecture/laboratory, 3 hours laboratory.
The cognitive and affective basis for EMT students wishing to become EMT paramedics.
The paramedic: anatomy and physiology; pharmacology; ambulance operations; medical incident command; terrorism and weapons of mass destruction; rescue awareness and operations hazardous material incidents; crime scene awareness; ambulance 911 call simulations and case studies for the following topics: prehospital trauma life support; neonatology; pediatrics; geriatrics; abuse, neglect, and assault; gynecology; obstetrics; patients with special challenges; chronic care patients.

EMTP 63A MOBILE INTENSIVE CARE PARAMEDIC 3 Units
PROGRAM: HOSPITAL SPECIALTY ROTATIONS
Formerly: EMTP 102
Prerequisite: EMTP 60A and 60B.
Advisory: Not open to students with credit in EMTP 102.
Corequisite: EMTP 61A and 61B.
May be taken 4 times for credit.
1.5 hours of lecture, six and one-half hours clinic.
Specially hospital rotations in the following departments: pediatrics, pediatric intensive care unit, labor and delivery, surgery (airway management), respiratory therapy, and other selected hospital areas.

EMTP 63B MOBILE INTENSIVE CARE PARAMEDIC 5 Units
PROGRAM: HOSPITAL EMERGENCY DEPARTMENT ROTATIONS
Formerly: EMTP 102
Prerequisite: Successful completion of: EMTP 60A, 60B, 61A, 61B, 62A, 62B.
Completion of, or concurrent enrollment in EMTP 63A.
Advisory: Not open to students with credit in EMTP 102.
Corequisite: Completion of, or concurrent enrollment in EMTP 63A.
May be taken 4 times for credit.
2.5 hours lecture, 12 hours clinic.
The hospital emergency department rotations give the paramedic student an opportunity to take the paramedic theoretical knowledge, laboratory skills and 911 ambulance call simulations, and appropriate attitudes learned in the classroom and apply them to live patients in a controlled setting with the assistance of the hospital preceptor/s and faculty in preparation for the for the chaotic, uncontrolled environment of the ambulance field internship.

EMTP 63C MOBILE INTENSIVE CARE PARAMEDIC 3 Units
PROGRAM: EXTENSION HOSPITAL ROTATION
Prerequisite: EMTP 60A, 60B, 61A, 61B. The following can be used as a prerequisite or can be taken concurrently: EMTP 62A, 62B, 63A, and 63B.
May be taken 4 times for credit.
16 hours of clinic.
Extended hospital rotations. Offers additional period of clinical exposure for students needing further clinical time to develop requisite skills. The hospital emergency department and specialty rotations give the paramedic student an opportunity to take the paramedic theoretical knowledge, laboratory skills and 911 ambulance call simulations, and appropriate attitudes learned in the classroom and apply them to live patients in a controlled setting with the assistance of the hospital preceptor/s and faculty in preparation for the for the chaotic, uncontrolled environment of the ambulance field internship.

EMTP 64A MOBILE INTENSIVE CARE PARAMEDIC 9.5 Units
PROGRAM: AMBULANCE FIELD INTERNSHIP
Formerly: EMTP 103A
Prerequisite: EMTP 60A, 60B, 61A, 62B, 63A, and 63B.
Advisory: Not open to students with credit in EMTP 103A.
Corequisite: EMTP 64B
May be taken 4 times for credit.
1.5 hours of lecture, 40 hours clinic.
Students are required to take the theoretical knowledge from the classroom, the laboratory simulations on manikins, and appropriate attitudes learned in the classroom, the hospital-clinical experience on live patients and combine these components to function as an intern responding on a 911 ambulance to ill and injured patients while being instructed and evaluated by a field preceptor. The student has the daunting task of initiating, providing, and directing entire emergency patient care while in a sometimes chaotic, uncontrolled environment.

EMTP 64B MOBILE INTENSIVE CARE PARAMEDIC 9.5 Units
PROGRAM: AMBULANCE FIELD INTERNSHIP
Formerly: EMTP 103B
Prerequisite: EMTP 60A, 60B, 61A, 62A, 62B, 63A, and 63B.
Advisory: Not open to students with credit in EMTP 103B.
Corequisite: EMTP 64A
May be taken 4 times for credit.
1.5 hours of lecture, 40 hours clinic.
Students are required to take the theoretical knowledge from the classroom, the laboratory simulations on manikins, and appropriate attitudes learned in the classroom, the hospital-clinical experience on live patients and combine these components to function as an intern responding on a 911 ambulance to ill and injured patients while being instructed and evaluated by a field preceptor. The student has the daunting task of initiating, providing, and directing entire emergency patient care while in a sometimes chaotic, uncontrolled environment.

EMTP 64C MOBILE INTENSIVE CARE PARAMEDIC 9.5 Units
PROGRAM: EXTENSION AMBULANCE FIELD INTERNSHIP
Prerequisite: EMTP 60A, 60B, 61A, 62B, 63A, and 63B.
Corequisite: EMTP 64D
May be taken 4 times for credit.
1.5 hours lecture, 40 hours clinic.
Extended ambulance internship. Offers additional period of clinical exposure for students needing further clinical time to develop requisite skills. Students are required to take the theoretical knowledge from the classroom, the laboratory simulations on manikins, and appropriate attitudes learned in the classroom, the hospital-clinical experience on live patients and combine these components to function as an intern responding on a 911 ambulance to ill and injured patients while being instructed and evaluated by a field preceptor. The student has the daunting task of initiating, providing, and directing entire emergency patient care while in a sometimes chaotic, uncontrolled environment.

EMTP 64D MOBILE INTENSIVE CARE PARAMEDIC 9.5 Units
PROGRAM: EXTENSION AMBULANCE FIELD INTERNSHIP
Prerequisite: EMTP 60A, 60B, 61A, 62B, 63A, 63B, 64A, and 64B.
Corequisite: EMTP 64C
May be taken 4 times for credit.
1.5 hours lecture, 40 hours clinic.
Extended ambulance internship. Offers additional period of clinical exposure for students needing further clinical time to develop requisite skills. Students are required to take the theoretical knowledge from the classroom, the laboratory simulations on manikins, and appropriate attitudes learned in the classroom, the hospital-clinical experience on live patients and combine these components to function as an intern responding on a 911 ambulance to ill and injured patients while being instructed and evaluated by a field preceptor. The student has the daunting task of initiating, providing, and directing entire emergency patient care while in a sometimes chaotic, uncontrolled environment.
Continuing education and refresher of the ambulance field experience for students who are licensed and/or nationally registered as paramedics. Offers additional period of clinical exposure for students needing further clinical time to develop and enhance paramedic knowledge, psychomotor skills, and attitudes. Students are required to take the theoretical knowledge from the classroom, the laboratory simulations on manikins, and appropriate attitudes learned in the classroom, the hospital-clinical experience on live patients and combine these components to function as an intern responding on a 911 ambulance to ill and injured patients while being instructed and evaluated by a field preceptor. The student has the daunting task of initiating, providing, and directing entire emergency patient care while in a sometimes chaotic, uncontrolled environment.

EMTP 65E MOBILE INTENSIVE CARE PARAMEDIC
PROGRAM: CONTINUING EDUCATION-REFRESHER AMBULANCE FIELD EXPERIENCE
Prerequisite: Paramedic licensure or certification and/or national registry status. May be taken 4 times for credit.
10 hours clinic.
Continuing education and refresher of the ambulance field experience for students who are licensed and/or nationally registered as paramedics. Offers additional period of clinical exposure for students needing further clinical time to develop and enhance paramedic knowledge, psychomotor skills, and attitudes. Students are required to take the theoretical knowledge from the classroom, the laboratory simulations on manikins, and appropriate attitudes learned in the classroom, the hospital-clinical experience on live patients and combine these components to function as an intern responding on a 911 ambulance to ill and injured patients while being instructed and evaluated by a field preceptor. The student has the daunting task of initiating, providing, and directing entire emergency patient care while in a sometimes chaotic, uncontrolled environment.

EMTP 65F MOBILE INTENSIVE CARE PARAMEDIC
PROGRAM: CONTINUING EDUCATION-REFRESHER AMBULANCE FIELD EXPERIENCE
Prerequisite: Paramedic licensure or certification and/or national registry status. May be taken 4 times for credit.
12 hours clinic.
Continuing education and refresher of the ambulance field experience for students who are licensed and/or nationally registered as paramedics. Offers additional period of clinical exposure for students needing further clinical time to develop and enhance paramedic knowledge, psychomotor skills, and attitudes. Students are required to take the theoretical knowledge from the classroom, the laboratory simulations on manikins, and appropriate attitudes learned in the classroom, the hospital-clinical experience on live patients and combine these components to function as an intern responding on a 911 ambulance to ill and injured patients while being instructed and evaluated by a field preceptor. The student has the daunting task of initiating, providing, and directing entire emergency patient care while in a sometimes chaotic, uncontrolled environment.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
**ENGR 101** BASIC SKILLS IN THE WORKPLACE 2 Units  
1 hour lecture, 2 hours lecture-laboratory. 
Designed for students to acquire basic workplace skills, including interpersonal communication, understanding the roles of various professions in the workplace, problem solving and computer usage. Students will apply their skills by completing a project.

---

**ENGR 27** ENGINEERING DESCRIPTIVE GEOMETRY 3 Units  
Prerequisite: ENGR 6, or 1 year of high school drafting.  
Advisory: Designed for engineering transfer majors.  
2 hours lecture, 3 hours laboratory.  
Theory of orthographic projection and its application to graphical solution of the more advanced three-dimensional space problems. Investigation of relationships between points, lines, planes and solids. Application to engineering practice.

**ENGR 34H** HONORS INSTITUTE SEMINAR IN ENGINEERING 1 Unit  
Prerequisite: Honors Institute participant.  
1 hour lecture.  
A seminar in directed readings, discussions and projects in engineering. Specific topics to be determined by the instructor.

**ENGR 35** STATICS 5 Units  
Prerequisite: MATH 1B and PHYS 4A.  
Advisory: ENGR 27 recommended.  
5 hours lecture.  
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.

**ENGR 36** SPECIAL PROJECTS IN ENGINEERING & TECHNOLOGY (HONORS) 2 Units  
Advisory: Previous experience in engineering recommended.  
Any combination of ENGR 36–36Y may be taken a maximum of 6 times for credit.  
3 hours laboratory.  
For the exceptional student. The student designs, assembles, and evaluates a project appropriate to his major and writes a report covering the theory or background for the project, its design and construction, and its application. The student is encouraged to work with a minimum of direct supervision.

**ENGR 37** INTRODUCTION TO CIRCUIT ANALYSIS 5 Units  
Prerequisite: MATH 1B and PHYS 4B.  
5 hours lecture.  
The analysis of lumped, linear circuits, natural and forced circuit response.

---

**ENGR 6** ENGINEERING GRAPHICS 6 Units  
4 hours lecture, 4 hours lecture-laboratory.  
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.

**ENGR 20** INTRODUCTION TO ENGINEERING 4 Units  
Prerequisite: MATH 220.  
Advisory: ENGL 110 or ESL 25.  
3 hours lecture, 3 hours laboratory.  
An introduction to engineering and the engineering professions to include exposure to engineering project development, the use of computer tools, experimentation, data analysis, and presentation.

**ENGR 27L** CIRCUIT ANALYSIS LABORATORY 2 Units  
Corequisite: ENGR 37.  
1 hour lecture, 3 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 37** SEMICONDUCTOR DEVICES & CIRCUITS 5 Units  
Prerequisite: ENGR 37.  
5 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory.  
Fundamental semiconductor theory, device’s materials and design. Introduction to the operation of several semiconductor devices, analysis of analog and digital circuits using solid-state devices, including circuits with diodes, transistors, operational amplifiers, small signal equivalent circuits, CMOS logic gates, and introduction of logic circuits.

**ENGR 45** PROPERTIES OF MATERIALS 5 Units  
Prerequisite: CHEM 1B; MATH 1C; Completion of, or concurrent enrollment in PHYS 4B.  
4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory.  
Properties of engineering materials related to basic structure; applications to the selection and use of engineering materials.

**ENGR 49** ENGINEERING PROFESSION 1 Unit  
1 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.

---

**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.  
5 hours lecture, 1 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 writing requirements 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, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course.  
[CAN ENGL 2, CAN ENGL SEQ A = ENGL 1a+1b]
ENGL 1AH  HONORS COMPOSITION & READING  5 Units
Prerequisite: Eligibility based on appropriate assessment information; Honors Institute participant.
5 hours lecture, 1 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, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course. Honors section offers rigorous preparation in analytic reading and writing skills for students intending to transfer to a four-year college or university. Course provides opportunity to engage contemporary social and ethical issues through small group discussion, a structured sequence of papers requiring higher-level thinking tasks, and collaborative projects. Emphasis is placed on multiple drafts and substantive revision to produce articulate writing appropriate to academic disciplines. Research paper is required.

ENGL 1B  COMPOSITION, CRITICAL READING & THINKING  5 Units
Prerequisite: ENGL 1A or ESL 26.
5 hours lecture, 1 hour laboratory.
Further development in the technique and practice of expository and argumentative writing, critical reading and thinking. Readings chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Formal instruction in composition and critical thinking. Open laboratory can be access to Academic Skills courses, English Writing Center, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course. [CAN ENGL 4, CAN ENGL SEG A = ENGL 1A + 1B]

ENGL 1BH  HONORS COMPOSITION, CRITICAL READING, & THINKING  5 Units
Prerequisite: ENGL 1A; Honors Institute participant.
5 hours lecture, 1 hour laboratory.
Further development in the technique and practice of expository and argumentative writing, critical reading and thinking. Readings chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Formal instruction in composition and critical thinking. Open laboratory can be access to Academic Skills courses, English Writing Center, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course. Honors section offers rigorous preparation in analytic reading and writing skills for students intending to transfer to a four-year college or university. Class discussion and assignments focus on literature as a reflection of multiple perspectives, social constructs, and cultural values. Course fosters an understanding and appreciation of various literary genres and includes logic and literary theory. Emphasis on rhetorical strategies and stylistic refinements for effective persuasive writing across the disciplines. Enrichment activities include attendance at plays, author readings, public lectures, and independent or collaborative study on a contemporary author.

ENGL 1C  ADVANCED COMPOSITION  4 Units
Formally: ENGL 2
Prerequisite: ENGL 1A or ESL 26.
Advisory: Not open to students with credit in ENGL 2.
4 hours lecture, 1 hour laboratory.
Advanced study and practice of expository and argumentative writing. Focus is on reading and writing assignments from across the disciplines to further improve and refine reading, grammar, composition, and critical thinking skills. Offered Spring Quarters. Open laboratory can be access to Academic Skills courses, English Writing Center, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course.

ENGL 1CH  HONORS ADVANCED COMPOSITION  4 Units
Prerequisite: ENGL 1A; Honors Institute participant.
4 hours lecture, 1 hour laboratory.
Advanced study and practice of expository and argumentative writing. Focus is on reading and writing assignments from across the disciplines to refine critical reading, rhetoric, writing style, and critical thinking skills. Offered Spring Quarters. Open laboratory can be access to Academic Skills courses, English Writing Center, on-line resources, or, if assigned by instructor, individual/collaborative activities related to course. Honors section is intensive in content, involving both writing and meta-analysis of complex texts. Includes collaborative evaluations of the content, evidence, organizing principles and style of a variety of texts. Course encourages students to examine assumptions, implications and unintended consequences of rhetorical and content choices. Includes focus on primary sources and the interpretations of these documents in contemporaneous writing. Course expands and enhances the student’s ability to write with fluency, effectiveness, and intellectual rigor.

ENGL 3  TECHNICAL WRITING  5 Units
Advisory: Eligibility for ENGL 1A recommended.
5 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.
4 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 recommended.
4 hours lecture.
Introduction to the history and development of gay and lesbian literature as a continuous theme in the development of mainstream literary traditions and, more recently, as a separate and distinct literary genre. Readings selected to represent a variety of historical periods and contrasting societal attitudes toward same-sex relationships, ranging from ancient Greek and Roman texts to contemporary American poetry, fiction, drama, and non-fiction prose. Emphasis on the emergence of contemporary gay/lesbian literatures and identities in the United States in the twentieth century within the broader context of on-going class, race, gender, religious, political, and aesthetic debates. Offered Fall Quarters.

ENGL 7  NATIVE AMERICAN LITERATURE  4 Units
Advisory: Eligibility for ENGL 1A recommended.
4 hours lecture.
Introduction to the history, development, and diversity of Native American literatures from pre-contact civilizations to present-day tribal cultures. Readings in traditional creation myths, songs, and stories from a variety of tribal cultures; nineteenth and twentieth century autobiographical narratives; and significant works of fiction, poetry, and non-fiction prose by contemporary Native American authors. Emphasis on the specific religious, linguistic, historical, political and cultural context of Native American literary achievements. Offered Winter Quarters (rotated with ENGL 40)

ENGL 7H  HONORS NATIVE AMERICAN LITERATURE  4 Units
Prerequisite: Honors Institute participant.
Advisory: Eligibility for ENGL 1A recommended.
4 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. Honors work challenges students to be more analytical through expanded assignments including, but not limited to, research-driven literature reviews, research essays, and outside enrichment opportunities. The honors course offers motivated students an enriching and rigorous environment by means of a learner-centered pedagogy, student-generated discussions, self-directed yet supervised projects, and the emphasis and application of analysis, synthesis, and evaluation. Offered Winter Quarters (rotated with ENGL 40)
### ENGL 8  
**Children’s Literature**  
4 Units  
Advisory: Eligibility for ENGL 1A recommended.  
4 hours lecture.  
A survey of children's literature from many periods and cultures, including classics, picture books, folktales, fairy tales, biography, poetry, fantasy and fiction. Emphasis on the ideas, didactic and sociological, reflecting relationships among cultures in America included in books usually read by children. Special emphasis on books that explore the cross-cultural influences of our shared oral tradition and folklore as well as the issues arising from a diverse mix of cultures in the U.S. Offered Fall and Spring Quarters.

### ENGL 11  
**Introduction to Poetry**  
4 Units  
Prerequisite: Eligibility for ENGL 1A.  
4 hours lecture.  
Analysis and discussion of forms, techniques and meanings of poetry, with emphasis on modern examples in English or translation to develop the student’s ability to read, understand, and evaluate a poem. Offered Winter Quarters. [Can ENGL 20]

### ENGL 11H  
**Honors Introduction to Poetry**  
4 Units  
Prerequisite: Eligibility for ENGL 1A; Honors Institute participant.  
4 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. Honors work challenges students to be more analytical through expanded assignments including, but not limited to, research-driven literature reviews, reflection papers, and outside enrichment opportunities. The honors course offers accelerated students an enriching and demanding environment. Offered Winter Quarters.

### ENGL 12  
**African American Literature**  
4 Units  
Advisory: Eligibility for ENGL 1A recommended.  
4 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 wrtings from the 19th, 20th and 21st centuries, including audience, identity, (self), gender, family, culture, politics, spirituality and language. Offered Winter Quarters.

### ENGL 14  
**Introduction to Contemporary Fiction**  
4 Units  
Prerequisite: Eligibility for ENGL 1A.  
4 hours lecture.  
Selected fiction written between 1950 and the present, with emphasis on English, Canadian, and international works in translation. Students are introduced to various thematic and stylistic trends in contemporary fiction; use of current scientific discoveries, historical theories, religious and cultural developments. Offered Fall Quarters.

### ENGL 17  
**Introduction to Shakespeare**  
4 Units  
Prerequisite: Eligibility for ENGL 1A.  
4 hours lecture.  
Detailed analysis of representative sonnets, and history, tragedy, comedy, and romance dramas through lecture and discussion. Consideration of the Elizabethan world. Offered Spring Quarters.

### ENGL 22  
**Women Writers**  
4 Units  
Prerequisite: Eligibility for ENGL 1A.  
4 hours lecture.  
An examination of the works of 19th and 20th Century multicultural women poets, novelists, dramatists, and essayists and their contribution to English and American literature. Includes independent research and the creation of a major project on author, genre, work or theme. Offered Spring Quarters.

### ENGL 23  
**Modern English: Function & Grammar**  
4 Units  
Prerequisite: Eligibility for ENGL 1A.  
Advisory: Not open to students with credit in LING 23.  
4 hours lecture.  
Introduction to basic linguistic concepts in describing the functions and grammar of present-day English. Focus on grammatical features of standard American English, Black English, and other English varieties as they function in the diverse types of communication between Americans, as well as in global interaction. Analysis of modern English relevant for those interested in refining their English, students of ESL and foreign languages, and prospective writers and language teachers. Offered Winter Quarters.

### ENGL 25  
**Introduction to Descriptive & Historical Linguistics**  
4 Units  
Prerequisite: Eligibility for ENGL 1A.  
Advisory: Not open to students with credit in ENGL 25, LING 25 or 25H.  
4 hours lecture.  
Introduction to linguistic concepts in the study of structure, pattern, meaning, and change in language, with emphasis on British and American English. Introduction to historical linguistic theory and methods as applied to investigation of origin and development of spoken and written language, with focus on British, Standard American, and Black American English. Offered Fall Quarters.

### ENGL 25H  
**Honors Introduction to Descriptive & Historical Linguistics**  
4 Units  
Prerequisite: Eligibility for ENGL 1A; Honors Institute participant.  
Advisory: Not open to students with credit in ENGL 25, LING 25 or 25H.  
4 hours lecture.  
Introduction to linguistic concepts in the study of structure, pattern, meaning, and change in language, with emphasis on British and American English. Introduction to historical linguistic theory and methods as applied to investigation of origin and development of spoken and written language. Honors section offers rigorous preparation in linguistic studies for students intending to transfer to a four-year college or university. Two research or fieldwork projects are required.

### ENGL 26  
**Language, Mind & Society**  
4 Units  
Prerequisite: Eligibility for ENGL 1A.  
Advisory: Not open to students with credit in LING 26.  
4 hours lecture.  
Introduction to methods of linguistic analysis and basic concepts in psycholinguistics and sociolinguistics. Topics include function of the brain in language acquisition and language loss by mono/bilingual children and adults; role of language in society; language variability in diverse ethnic groups of speakers and diverse social uses; education and language planning. Offered Spring Quarters.

### ENGL 30  
**Special Topics in English**  
4 Units  
Advisory: Eligibility for ENGL 1A recommended.  
May be taken 2 times for credit.  
4 hours lecture.  
Intensive study of selected special topics in language and literature. Subjects vary from quarter to quarter. Consult current schedule for exact title.

### ENGL 31  
**Chicano Literature**  
4 Units  
Prerequisite: Eligibility for ENGL 1A recommended.  
4 hours lecture.  
Reading and discussion of Chicano literature and its relationship to social issues and conflicts of Chicanos. Critical examination of fiction, poetry, essays, and drama by and about Mexican Americans. Offered Spring Quarters (rotated with ENGL 41).

### ENGL 34H  
**Honors Institute Seminar in English**  
1 Unit  
Formerly: ENGL 34  
Prerequisite: Honors Institute participant.  
May be taken 3 times for credit.  
1 hour lecture.  
A seminar in directed readings, discussions, and projects in English. Specific topics to be determined by the instructor.

---

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
ENGL 35  SEMINARS IN ENGLISH  1 Unit  
ENGL 35X  2 Units  
ENGL 35Y  3 Units  
ENGL 35Z  4 Units  
Prerequisite: ENGL 1A or ESL 26. 
Any combination of ENGL 35–35Z may be taken a maximum of 6 units for credit. 
1 hour lecture. 
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 36–36Z may be taken a maximum of 6 times for credit. 
1 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 40  ASIAN AMERICAN LITERATURE  4 Units  
Prerequisite: Eligibility for ENGL 1A. 
4 hours lecture. 
Introduction to Asian American literature. Readings in 20th Century works, with an emphasis on three relevant themes: problems of identity as they relate to class, gender, mixed heritages, and sexuality; politics and the history of Asian American activism and resistance; and diversity of cultures within the Asian American community. Offered Winter Quarters (rotated with ENGL 7). 

ENGL 41  LITERATURE OF MULTICULTURAL AMERICA  4 Units  
Prerequisite: Eligibility for ENGL 1A. 
4 hours lecture. 
An exploration of American identity, focusing on ethnic, cultural, and national affiliations. Analysis of literary works by Native American, European American, African American, Chicano/Latino, and Asian American writers. Readings selected represent a variety of historical periods and literary genres. Emphasis on issues of assimilation, acculturation, and cultural pluralism as expressed through diverse voices. Offered Spring Quarters (rotated with ENGL 31). 

ENGL 42A  INTRODUCTION TO DRAMATIC LITERATURE  4 Units  
Prerequisite: Eligibility for ENGL 1A. 
Advisory: Not open to students with credit in DRAM 2A or THTR 2A. 
4 hours lecture. 
Analysis of representative masterpieces of dramatic literature from Aeschylus through the Renaissance Period and including Asian Theatre. 

ENGL 42B  INTRODUCTION TO DRAMATIC LITERATURE  4 Units  
Prerequisite: Eligibility for ENGL 1A. 
Advisory: Not open to students with credit in DRAM 2B or THTR 2B. 
4 hours lecture. 
Analysis of representative masterpieces of dramatic literature from the Elizabethan Period to the end of the 19th Century. 

ENGL 42C  INTRODUCTION TO DRAMATIC LITERATURE  4 Units  
Prerequisite: Eligibility for ENGL 1A. 
Advisory: Not open to students with credit in DRAM 2C or THTR 2C. 
4 hours lecture. 
Analysis of representative masterpieces of dramatic literature from the beginning of the 20th Century to the present. 

ENGL 46A  SURVEY OF ENGLISH LITERATURE  4 Units  
Prerequisite: ENGL 1A or ESL 26. 
4 hours lecture. 
Reading and critical analysis of representative works, emphasizing social and cultural backgrounds from Beowulf through Shakespeare, the Metaphysical Poets, and Milton. Offered Fall Quarters. [CAN ENGL 8 = ENGL 46A+46B, CAN ENGL SEQ B = ENGL 46A+46B+46C]  

ENGL 46B  SURVEY OF ENGLISH LITERATURE  4 Units  
Prerequisite: ENGL 1A or ESL 26. 
4 hours lecture. 
Reading and critical analysis of representative works, emphasizing social and cultural backgrounds, from the Restoration through the 18th Century and Romantic Period. Offered Winter Quarters. 

ENGL 46C  SURVEY OF ENGLISH LITERATURE  4 Units  
Prerequisite: ENGL 1A or ESL 26. 
4 hours lecture. 
Reading and critical analysis of representative works, emphasizing social and cultural backgrounds, from the Victorian to the Modern Period. Offered Spring Quarters. 

ENGL 48A  SURVEY OF EARLY AMERICAN LITERATURE: 4 Units  1492–1864  
Prerequisite: ENGL 1A or ESL 26. 
4 hours lecture. 
Representative works of American literature from Columbus’s first voyage in 1492 through the Civil War, focusing on the development of entirely new literary forms, voices, and perspectives which make American literature unique. Selections from Native American myths, legends, and autobiographies; reports of early Spanish explorers; English colonial histories and Puritan poetry; African American slave narratives and poems; Revolutionary War political texts; frontier tall tales; transcendentalist philosophy; gothic short stories; and romantic fiction. Special emphasis on the contributions of diverse cultures in forging American literature and identity. Offered Fall Quarters. 

ENGL 48B  AMERICAN LITERATURE IN THE GILDED AGE: 4 Units  1865–1914  
Prerequisite: ENGL 1A or ESL 26. 
4 hours lecture. 
Introduction to representative works of multicultural American Literature in the wake of the Civil War (1865–1914) including satirical works by Mark Twain; the experimental poetry of Walt Whitman and Emily Dickinson; autobiographical and political texts by African American leaders Booker T. Washington and W.E.B. Dubois; Mexican vaquero fiction; early Asian American texts; and Native American autobiographies. Emphasis on the radical innovations in literary forms, themes, language, and philosophy which shaped America’s new identity as an emerging world power within a period of fierce conflicts within American society over race, class, and gender roles. Offered Winter Quarters. 

ENGL 48C  MODERN AMERICAN LITERATURE: 4 Units  1914–PRESENT  
Prerequisite: ENGL 1A or ESL 26. 
4 hours lecture. 
Introduction to multicultural American Literature in the Modern Age (1914–present) with emphasis on the courageous contributions and literary innovations of diverse authors of Asian American, African American, Anglo American, Latin American, and Native American heritage, including Harlem Renaissance authors such as Hughes and Hurston; the radically experimental fiction of Hemingway, Fitzgerald, and Faulkner; the rise of modernist poets such as Eliot, Stevens, and Williams; Beat Generation authors such as Kerouac and Ginsberg; Native American authors such as Momaday and Erdrich; feminist poets such as Plath and Rich; and Asian American writers such as Bulosan and Hong Kingston. Special emphasis on the role of these diverse writers in continuously redefining the nature of American literature in the 20th Century, and thereby reshaping American national identity as the United States becomes a global superpower. Offered Spring Quarters. 

ENGL 54  PROFESSIONAL WRITING SKILLS  4 Units  
Prerequisite: Eligibility for ENGL 1A. 
4 hours lecture. 
Instruction in professional writing skills, small group and/or individualized internet course; covers eight complex sentence patterns, along with grammatical background and punctuation rules; conciseness in writing; and style and voice for professional writers. Skills applied to writing projects for both college courses and the workplace. Offered Winter Quarters.
ENGL 104A NARRATIVE READING & WRITING: PUENTE 5 Units
Advisory: Not open to students with credit in ENGL 108 or 100.
5 hours lecture.
Introduction to short narrative forms of college-level reading and writing: (auto) biography, narrative reporting, story-telling, interviews, summary, testimonials. Materials used to be theme-based from Latino/Mexican American authors. Narrative structure used to teach the fundamentals of analytical reading and writing. Lecture, discussion, group work, and individualized instruction. Students who do not meet all of the expected outcomes of this course may be assigned a grade and units of credit in ENGL 205 and should repeat ENGL 104A or 100/110 sequence.

ENGL 104B ANALYTICAL READING & WRITING: PUENTE 5 Units
Prerequisite: ENGL 104A.
Advisory: Not open to students with credit in ENGL 108 or 110.
5 hours lecture.
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 100/110 sequence.

ENGL 108 READING & WRITING ON SPECIAL TOPICS 10 Units
Prerequisite: Must be eligible for both ENGL 100 and 110 based on assessment information.
Advisory: Not open to students who have completed ENGL 100 and/or 110.
10 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.

ENGL 110 INTRODUCTION TO COLLEGE WRITING 5 Units
Prerequisite: Eligibility based on assessment or successful completion of ENGL 100.
Advisory: Not open to students with credit in ENGL 108.
5 hours lecture, 1 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, on-line 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 6 times for credit.
2 hours lecture, 1 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
Non-degree applicable credit course.
Advisory: Pass/No Pass.
Any combination of ENGL 190–190Z may be taken a maximum of 6 times for credit.
.5 hour lecture, 3.5 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 205 ALTERNATE CREDIT READING SKILLS 5 Units
Non-degree applicable credit course.
Corequisite: Concurrent enrollment in ENGL 100 or 108.
May be taken 2 times for credit.
5 hours lecture.
Designed to allow students enrolled in ENGL 100 or 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 215 ALTERNATE CREDIT WRITING SKILLS 5 Units
Non-degree applicable credit course.
Corequisite: Concurrent enrollment in ENGL 110 or 108.
May be taken 2 times for credit.
5 hours lecture.
Designed to allow students enrolled in ENGL 110 or 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 108) course, turn in all work, and participate in the other tasks of the class. Does not meet the Foothill College writing requirement.
ENGLISH AS A SECOND LANGUAGE
Language Arts
(550) 949-7250
www.foothill.edu/ia/

ESL 25 COMPOSITION & READING 5 Units
Prerequisite: Appropriate placement test score or a grade of “C” or better in ESL 166 and 167; designed for students whose native language is not English.
Advisory: Completion of, or concurrent enrollment in ESL 165; concurrent enrollment in ESL 176 and/or 177 strongly recommended.
5 hours lecture, 1 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
Prerequisite: Appropriate placement test score or a grade of “C” or better in ESL 25; designed for students whose native language is not English.
Advisory: Completion of, or concurrent enrollment in ESL 165; concurrent enrollment in ESL 176 and/or 177 strongly recommended.
5 hours lecture, 1 hour laboratory.
The techniques and practice of expository and argumentative writing based on critical reading and thinking. Reading focused on essays and articles, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences and perspectives. Research paper synthesizes information from a range of current sources to form a persuasive argument. Open laboratory for feedback on essays and individualized assistance with specific writing problems. Fulfills the composition requirements for the A.A. degree.

ESL 134 FUNDAMENTALS OF ENGLISH 10 Units
Non-degree applicable credit course.
Advisory: Concurrent enrollment in ESL 137 strongly recommended; designed for students whose native language is not English.
10 hours lecture, 2 hours laboratory.
A basic English course for non-native speakers focusing on basic grammatical structures, vocabulary development, listening, speaking, and writing. Computer lab work to reinforce structures. Emphasis on practical understanding and everyday communication in spoken and written contexts.

ESL 136 BASIC GRAMMAR FOR COMMUNICATION 5 Units
Non-degree applicable credit course.
Advisory: Concurrent enrollment in ESL 137 strongly recommended; designed for students whose native language is not English.
5 hours lecture, 1 hour laboratory.
A basic English course for non-native speakers focusing on comprehension, communication and grammatical accuracy. Practical emphasis on understanding and everyday communication in spoken and written contexts. Computer or workbook activities to reinforce knowledge of structures.

ESL 137 BASIC READING & WRITING SKILLS 5 Units
Non-degree applicable credit course.
Advisory: Designed for students whose native language is not English. Corequisite: Completion of, or concurrent enrollment in ESL 134 or 136.
5 hours lecture, 1 hour laboratory.
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.

ESL 145 ORAL COMMUNICATION SKILLS I 5 Units
Non-degree applicable credit course.
Advisory: Appropriate placement test score or successful completion of ESL 136 and 137; designed for students whose native language is not English.
5 hours lecture.
Basic practice in listening to everyday English and participating in everyday conversations. Pronunciation work to develop clear speech and comprehension of naturally spoken English. Reading and writing tasks related to listening and speaking.

ESL 146 INTERMEDIATE GRAMMAR FOR COMMUNICATION 5 Units
Non-degree applicable credit course.
Prerequisite: Appropriate placement test score or a grade of “C” or better in ESL 134 or 136; Successful completion of ESL 137.
Advisory: Concurrent enrollment in ESL 147 recommended; designed for students whose native language is not English
5 hours lecture, 1 hour laboratory.
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/or workbook activities to reinforce knowledge of structures.

ESL 147 INTERMEDIATE READING SKILLS 5 Units
Non-degree applicable credit course.
Prerequisite: Appropriate placement test score or successful completion of ESL 136 and 137.
Advisory: Concurrent enrollment in ESL 146 recommended; designed for students whose native language is not English.
5 hours lecture, 1 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 154 HIGH-INTERMEDIATE GRAMMAR/READING 10 Units
Non-degree applicable credit course.
Prerequisite: Appropriate placement test score; successful completion of ESL 146 and 147 or completion of the Palo Alto Adult School ESL course sequence.
10 hours lecture, 2 hours laboratory.
A high intermediate grammar and reading course for non-native speakers of English focusing on spoken and written communication, grammatical accuracy, and comprehension of pre-college level reading. Computer and/or workbook activities to reinforce knowledge of material and skills.

ESL 155 DEVELOPING LISTENING/SPEAKING SKILLS 5 Units
Non-degree applicable credit course.
Prerequisite: Appropriate placement test score or successful completion of ESL 145.
Advisory: Successful completion of ESL 146 and 147 strongly recommended; designed for students whose native language is not English.
5 hours lecture.
Development of ability to listen to everyday English and to participate in everyday conversations. Introduction to academic listening and classroom interactional skills, discussion skills and the language of group work dynamics. Pronunciation work to develop clear speech and comprehension of naturally spoken English. Reading and writing tasks related to listening and speaking.

ESL 156 HIGH-INTERMEDIATE GRAMMAR 5 Units
Non-degree applicable credit course.
Prerequisite: Appropriate placement test score or successful completion of ESL 146.
Advisory: Successful completion of ESL 147 strongly recommended. Concurrent enrollment in ESL 157 recommended; designed for students whose native language is not English.
5 hours lecture, 1 hour laboratory.
Continuation of ESL 146. A high-intermediate English course for non-native speakers focusing on comprehension, communication, and grammatical accuracy. Emphasis on understanding and communication of new information, conjectures, and logical relationships in spoken and written contexts. Computer or workbook activities to reinforce knowledge of structures.

ESL 157 HIGH-INTERMEDIATE READING SKILLS 5 Units
Non-degree applicable credit course.
Prerequisite: Appropriate placement test score in or successful completion of ESL 146 and 147.
Advisory: Concurrent enrollment in ESL 156 recommended; designed for students whose native language is not English.
5 hours lecture, 1 hour laboratory.
Continuation of ESL 147. An upper-intermediate level reading course focusing on higher level comprehension skills and strategies for dealing with pre-college-level reading. Computer and/or workbook activities to reinforce knowledge of material and skills.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
ESL 158 DEVELOPING LANGUAGE SKILLS FOR INTERNATIONAL STUDENTS 10 Units
Non-degree applicable basic skills course. Prerequisite: TOEFL score of 475 to 499; Restricted to international students whose native language is not English. 10 hours lecture.
A high intermediate/low-advanced course in Grammar, Writing, Reading, and Speaking for international students who are about to enter a college academic program. Designed to improve students language skills.

ESL 165 LISTENING/SPEAKING FOR ACADEMIC PURPOSES 5 Units
Non-degree applicable credit course. Prerequisite: Appropriate placement test score or successful completion of ESL 155. Advisory: Successful completion of ESL 156 and 157 strongly recommended; concurrent enrollment in ESL 167 recommended; designed for students whose native language is not English. 5 hours lecture.
A listening/speaking course focusing on preparing students for listening to authentic lectures and classroom discussions. Practice with classroom interaction, discussion and presentation skills. Pronunciation work to develop intelligible speech and ability to comprehend naturally spoken English in academic contexts. Level appropriate reading and writing tasks in connection with these activities.

ESL 166 ADVANCED GRAMMAR 5 Units
Non-degree applicable credit course. Prerequisite: Appropriate placement test score or successful completion of ESL 156 and 157, or 154. Advisory: Successful completion of ESL 157 strongly recommended; concurrent enrollment in ESL 167 recommended; designed for students whose native language is not English. 5 hours lecture, 1 hour laboratory.
Continuation of ESL 156. An advanced English course for non-native speakers focusing on comprehension, communication and grammatical accuracy. Emphasis on understanding and communication of abstract ideas as well as concrete new information in spoken and written contexts. Computer or workbook activities to reinforce knowledge of structures.

ESL 167 BASIC COMPOSITION SKILLS 5 Units
Non-degree applicable credit course. Prerequisite: Appropriate placement test score or a grade of “C” or better in ESL 156 and 157 or 154; concurrent enrollment in or a grade of “C” or better or ESL 166. Advisory: Designed for students whose native language is not English. 5 hours lecture, 1 hour laboratory.
A basic course for non-native speakers focusing on techniques of college writing, emphasizing clear prose. Lecture, discussion, and individualized instruction. Emphasis on the production of short compositions containing well-developed paragraphs and a variety of standard English sentences. Open laboratory for feedback on essays and individualized assistance with specific writing problems. Does not meet the graduation requirement in composition.

ESL 176 APPLIED GRAMMAR & EDITING SKILLS 3 Units
Non-degree applicable credit course. Prerequisite: Appropriate placement test score or a grade of “C” or better in ESL 156 and 157 or ESL 154; concurrent enrollment in or a grade of “C” or better or ESL 166. Advisory: Designed for students whose native language is not English. Corequisite: Concurrent enrollment in ESL 25, 26, ENGL 110, 1A or 1B. May be taken 2 times for credit. 3 hours lecture.
Identify and edit for patterns of grammatical errors in original writing. Develop individual error profile. Address pertinent grammar issues through review of grammatical rules, various grammar exercises, and editing of sample papers and original work.

ESL 177 ADVANCED VOCABULARY DEVELOPMENT FOR READING & WRITING 3 Units
Non-degree applicable credit course. 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 2 times for credit. 3 hours lecture.
Expansion of academic vocabulary to meet the specific vocabulary needs for students in an academic setting. Multiple exposures to target words in meaningful contexts and rich information about each word. May be repeated one time as course content changes.

ESL 186 ADVANCED GRAMMAR REVIEW 3 Units
Non-degree applicable credit course. Prerequisite: Successful completion of ESL 166 or an appropriate score on the ESL Placement Test. 3 hours lecture.
A review of essential grammar for academic writing designed for nonnative speakers of English. This course is delivered entirely online.

ESL 225 ALTERNATE CREDIT: COMPOSITION & READING 5 Units
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken 2 times for credit. 5 hours lecture, 1 hour laboratory.
Course is designed to allow students enrolled in ESL 25 to receive credit for mastery of some but not all of the outcomes of ESL 25. Students are required to attend the ESL 25 course, turn in all work, and participate in the other tasks of the class. Open laboratory for feedback on essays and individualized assistance with specific writing problems. Does not meet the Foothill College composition requirements for the A.A. degree.

ESL 226 ALTERNATE CREDIT: ADVANCED READING & COMPOSITION 5 Units
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken 2 times for credit. 5 hours lecture, 1 hour laboratory.
Course is designed to allow students enrolled in ESL 26 to receive credit for mastery of some but not all of the outcomes of ESL 26. Students are required to attend the ESL 26 course, turn in all work, and participate in the other tasks of the class. Open laboratory for feedback on essays and individualized assistance with specific writing problems.

ESL 234 ALTERNATE CREDIT: FUNDAMENTALS OF ENGLISH 10 Units
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken 2 times for credit. 10 hours lecture, 2 hours laboratory.
Course is designed to allow students enrolled in ESL 134 to receive credit for mastery of some but not all of the outcomes of ESL 134. Students are required to attend the ESL 134 course, turn in all work, and participate in the other tasks of the class. Computer lab work to reinforce structures.

ESL 236 ALTERNATIVE CREDIT: BASIC GRAMMAR FOR COMMUNICATION 5 Units
Non-degree applicable credit course. Advisory: Pass/No Pass. May be taken 2 times for credit. 5 hours lecture, 1 hour laboratory.
Course is designed to allow students enrolled in ESL 136 to receive credit for mastery of some but not all of the outcomes of ESL 136. Students are required to attend the ESL 136 course, turn in all work, and participate in the other tasks of the class. Computer lab work to reinforce structures.

ESL 237 ALTERNATIVE CREDIT: BASIC READING & WRITING SKILLS 5 Units
Advisory: Pass/No Pass. May be taken 2 times for credit. 5 hours lecture, 1 hour laboratory.
Course is designed to allow students enrolled in ESL 137 to receive credit for mastery of some but not all of the outcomes of ESL 137. Students are required to attend the ESL 137 course, turn in all work, and participate in the other tasks of the class. Library and lab work for extensive reading and vocabulary development.
ESL 246 ALTERNATE CREDIT: INTERMEDIATE GRAMMAR FOR COMMUNICATION 5 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
May be taken 2 times for credit.
5 hours lecture.
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.

ESL 247 ALTERNATE CREDIT: INTERMEDIATE READING SKILLS 5 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
May be taken 2 times for credit.
5 hours lecture, 1 hour laboratory.
Course is designed to allow students enrolled in ESL 146 to receive credit for mastery of some but not all of the outcomes of ESL 146. Students are required to attend the ESL 146 course, turn in all work, and participate in the other tasks of the class.

ESL 256 ALTERNATE CREDIT: HIGH-INTERMEDIATE GRAMMAR 5 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
May be taken 2 times for credit.
5 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 2 times for credit.
5 hours lecture, 1 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.

ESL 265 ALTERNATE CREDIT: LISTENING/SPEAKING FOR ACADEMIC PURPOSES 5 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
May be taken 2 times for credit.
5 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 ALTERNATE CREDIT: ADVANCED GRAMMAR 5 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
May be taken 2 times for credit.
5 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 ALTERNATE CREDIT: ADVANCED VOCABULARY 5 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass
May be taken 2 times for credit.
5 hours lecture, 1 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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Advisory</th>
<th>Hours Lecture</th>
<th>Hours Laboratory</th>
</tr>
</thead>
</table>
| HORT 51B   | PLANT MATERIALS II                                               | 3     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
Identification, taxonomy, habits of growth, cultural and environmental requirements of woody plants grown in California. Emphasis on the use and maintenance of evergreen and deciduous shrubs in the landscape. Plants are observed in lab, on campus, and at off-site locations. | 2            | 3                |
| HORT 51C   | PLANT MATERIALS: ANNUALS                                         | 2     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
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. | 1            | 3                |
| HORT 51D   | PLANT MATERIALS: CALIFORNIA NATIVE PLANTS                        | 2     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
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. | 1            | 3                |
| HORT 51E   | PLANT MATERIALS: GROUND COVERS & VINES                          | 2     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
Identification, taxonomy, habits of growth, cultural and environmental requirements of 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. | 1            | 3                |
| HORT 51F   | PLANT MATERIALS: GRASSES, BAMBOOS & PALMS                        | 2     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
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. | 1            | 3                |
| HORT 51G   | PLANT MATERIALS: INTERIOR & TROPICAL PLANTS                      | 2     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
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. | 1            | 3                |
| HORT 51H   | PLANT MATERIALS: PERENNIALS & ANNUALS                            | 2     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
Identification, taxonomy, habits of growth, cultural and environmental requirements of significant perennial and annual species with significant features such as flower and foliage displays. Plants are observed in lab, on campus, and at off-site locations. | 1            | 3                |
| HORT 51J   | PLANT MATERIALS: CACTI & SUCCULENTS                              | 2     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
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. | 1            | 3                |
| HORT 52A   | HORTCULTURAL PRACTICES: SOILS                                   | 3     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
Principals 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. | 2            | 3                |
| HORT 52B   | HORTCULTURAL PRACTICES: PLANT PROPAGATION                       | 3     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
Principals 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. | 2            | 3                |
| HORT 52C   | HORTCULTURAL PRACTICES: PLANT INSTALLATION & MAINTENANCE        | 3     | Advisory: HORT 50A strongly recommended.  
Horticultural principles and practices for management of plants and gardens. Proper selection and maintenance of trees, shrubs, and ground covers. Fine gardening techniques used by landscape gardeners. Transplanting and planting containerized and boxed plant material. Preparation of planting areas and post-planting care of landscape plants. Techniques for pruning of various species. Operation of equipment and tools used in gardening. | 2            | 3                |
| HORT 52D   | HORTCULTURAL PRACTICES: BIOTECHNOLOGY & MICRO-PROPAGATION       | 3     | Advisory: HORT 50A or BIOL 10 strongly recommended.  
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). | 2            | 3                |
| HORT 52E   | HORTCULTURAL PRACTICES: GREENHOUSE & NURSERY MANAGEMENT         | 3     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
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. | 2            | 3                |
| HORT 52F   | HORTCULTURAL PRACTICES: INTERIORSCAPING                         | 3     | Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended.  
Design, installation, and maintenance practices utilized in interior landscapes. Includes the identification, selection, culture, and care of plants suitable for interior use and special events. Identification of approximately 50 tropical plants. Analysis of environmental factors which affect plant health, appearance, and longevity. Container and growing media selection. | 2            | 3                |
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT 52G</td>
<td>HORTICULTURAL PRACTICES: TURFGRASS MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2 hours lecture, 3 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Turf identification and planting techniques. Turf management and 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.</td>
<td></td>
</tr>
<tr>
<td>HORT 52H</td>
<td>HORTICULTURE PRACTICES: INTEGRATED PEST MANAGEMENT</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Advisory: Completion of, or concurrent enrollment in HORT 50A strongly recommended. 2 hours lecture, 3 hours laboratory. Problems and control solutions for diseases, insects, and weeds in landscapes and gardens. Biologically 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.</td>
<td></td>
</tr>
<tr>
<td>HORT 54A</td>
<td>LANDSCAPE CONSTRUCTION: GENERAL PRACTICES</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 3 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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 hardscapes applications including paving, walls, decks, and fences. Review of safety practices, careers in landscape construction, and contractor licensing.</td>
<td></td>
</tr>
<tr>
<td>HORT 54B</td>
<td>LANDSCAPE CONSTRUCTION: TECHNICAL PRACTICES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2.5 hours lecture, 1.5 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>HORT 54C</td>
<td>LANDSCAPE CONSTRUCTION: IRRIGATION PRACTICES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2.5 hours lecture, 1.5 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>HORT 54D</td>
<td>LANDSCAPE CONSTRUCTION: APPLIED PRACTICES</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Advisory: HORT 54A strongly recommended. May be taken 3 times for credit. 1 hour lecture, 3 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.</td>
<td></td>
</tr>
<tr>
<td>HORT 55A</td>
<td>GREEN INDUSTRY MANAGEMENT: BUSINESS PRACTICES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>HORT 55B</td>
<td>GREEN INDUSTRY MANAGEMENT: EMPLOYEE PRACTICES</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>HORT 60A</td>
<td>LANDSCAPE DESIGN: GRAPHIC COMMUNICATION</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 3 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>HORT 60B</td>
<td>LANDSCAPE DESIGN: THEORY</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Advisory: HORT 60A and/or drafting skills strongly recommended. 2 hours lecture, 3 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.</td>
<td></td>
</tr>
<tr>
<td>HORT 60C</td>
<td>LANDSCAPE DESIGN: IRRIGATION</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Advisory: HORT 54C strongly recommended.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.5 hours lecture, 1.5 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td>HORT 60D</td>
<td>LANDSCAPE DESIGN: PLANTING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Advisory: HORT 60A &amp; 60B, or equivalent strongly recommended; HORT 51A, 51B, &amp; 51H strongly advised. 2 hours lecture, 3 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.</td>
<td></td>
</tr>
<tr>
<td>HORT 60E</td>
<td>LANDSCAPE DESIGN: COMPUTER APPLICATIONS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Advisory: HORT 60A and a basic understanding of the operation of computers is strongly recommended. 2 hours lecture, 3 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. Vectorworks software is utilized in this course.</td>
<td></td>
</tr>
<tr>
<td>HORT 60F</td>
<td>LANDSCAPE DESIGN: PROCESS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Advisory: HORT 60A &amp; 60B.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 hours lecture, 3 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>HORT 60G</td>
<td>LANDSCAPE DESIGN: INTERMEDIATE COMPUTER APPLICATIONS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Advisory: HORT 60A and 60E strongly advised; knowledge of computer operation strongly advised. 2 hours lecture, 3 hours laboratory. Advanced use of Vectorworks as a landscape design and drafting tool. Topics covered include structuring of drawings using layers, improving drawing skills using tool commands such as walls, doors, stippling, and review of shortcuts used to improve drawing efficiency. Also covered will be customizing tool bars, expanding plant database, and importing/exporting/printing drawings. Introduction to three-dimensional drawing using Vectorworks and related programs.</td>
<td></td>
</tr>
<tr>
<td>HORT 80</td>
<td>ENVIRONMENTAL HORTICULTURE SKILLS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>May be taken 4 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>An extension of classroom instruction offering students the opportunity through a combination of practical field experience, independent research, student internship, and industry related educational opportunities to explore problems and required skills in the green industry. Introduction to the extensive number of career options available.</td>
<td></td>
</tr>
</tbody>
</table>
HORT 90A CONTAINER PLANTINGS IN THE LANDSCAPE 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
Utilization of container plantings in both interior environments and exterior landscapes. Design theory, selection of containers, plant selection, and planting methods. Soil preparation and irrigation techniques.

HORT 90B ENVIRONMENTAL HORTICULTURE CAREERS 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
Exploration of career options in the green industry. Focus on how to make contacts in industry, methods for approaching job search, and development of resumes and portfolios.

HORT 90C GARDEN PONDS & WATER FEATURES 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
Introduction to the aesthetics of garden water features and the techniques used in their design, construction, and maintenance. Use of fish, plants, and other natural systems in garden ponds and pools.

HORT 90D HERBS: IDENTIFICATION, USE & FOLKLORE 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
An introductory look at the use and folklore of herbs grown for specific cultural purposes. Herbs noted for their culinary, aromatic, or medicinal properties.

HORT 90E HORTICULTURAL & LANDSCAPE PHOTOGRAPHY 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
Introduction to basic photographic equipment and techniques utilized in photographing landscapes and horticulturally related elements. Emphasis on assisting green industry professionals in photographing ornamental plants, landscape construction or business-related projects, and landscape designs.

HORT 90F LANDSCAPE DESIGN: BASIC PRINCIPLES 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
An introduction to the basics of landscape design. Presents basic graphic communication concepts. Also explores the concept of master planning residential landscapes, and designing with plant material and related landscape elements.

HORT 90G LANDSCAPE DESIGN FORUM 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
Design topics for residential landscapes. Covers current concepts and trends in the landscape design industry through topical presentations, guest speakers, and discussion groups. Explores methods for evaluating successful landscape designs and their implementation.

HORT 90H LANDSCAPE LIGHTING 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 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 90I LANDSCAPE SUSTAINABILITY PRACTICES 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 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.

HORT 90J LANDSCAPE TOOLS & EQUIPMENT 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 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.

HORT 90K LANDSCAPING WITH EDIBLES 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 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.

HORT 90L PLANT PROPAGATION: BASIC SKILLS 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 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.

HORT 90M PLANT NUTRITION & FERTILIZATION 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
Update for pest control advisers (PCA) and other people interested in insect pests in agricultural and ornamental landscapes on the newest strategies and technologies for ecologically and economically sound insect pest management. Applied point of view explaining theoretical concepts within the framework of specific insect and mite pest situations in the landscape.

HORT 90N PLANT MATERIALS: FALL COLOR 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
Pruning of deciduous and evergreen plant materials. Emphasis on pruned common landscape plants, fruit trees, and roses. Selection of suitable pruning tools, techniques for pruning safely, and use and maintenance of tools and equipment.

HORT 90O RESIDENTIAL IRRIGATION SYSTEMS 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
Floral design geared to the preparation of seasonal and holiday floral arrangements using commercially grown fresh and dried materials and other ornamentation. Concentrates on seasonal-specific floral designs and emphasizes the techniques and mechanics used in retail florist shop design.

HORT 90P PRUNING: BASIC SKILLS 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 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.

HORT 90Q SEASONAL FLORAL DESIGN 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
Floral design geared to the preparation of seasonal and holiday floral arrangements using commercially grown fresh and dried materials and other ornamentation. Concentrates on seasonal-specific floral designs and emphasizes the techniques and mechanics used in retail florist shop design.

HORT 90R TECHNOLOGY UPDATE ON INSECT PEST MANAGEMENT FOR PEST CONTROL ADVISORS (PCA) 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
PRUNING: BASIC SKILLS 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 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.

HORT 90S TECHNOLOGY UPDATE ON INSECT PEST MANAGEMENT FOR PEST CONTROL ADVISORS (PCA) 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
Update for pest control advisers (PCA) and other people interested in insect pests in agricultural and ornamental landscapes on the newest strategies and technologies for ecologically and economically sound insect pest management. Applied point of view explaining theoretical concepts within the framework of specific insect and mite pest situations in the landscape.

HORT 90T GARDENS OF THE RENAISSANCE 1 Unit
May be taken 5 times for credit.
.75 hour lecture, .5 hour laboratory.
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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
# Fine Arts

**F A 92** COMMUNITY SERVICE LEARNING ACROSS THE CURRICULUM FOR FINE ARTS
Non-degree applicable credit course.
Advisory: Pass/No Pass.
May be taken 6 times for credit.
3 hours laboratory.
For students who desire training and technical support in experiential learning as a community volunteer in specific fine arts disciplines.

## Fine Arts Laboratory

**F A 150** FINE ARTS LABORATORY
- **F A 150X** 1 Unit
- **F A 150Y** 1.5 Units
- **F A 150Z** 2 Units
Any combination of F A 150–150Z may be taken for a maximum of 12 units.
1.5 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
- **F A 190X** 1 Unit
- **F A 190Y** 1.5 Units
- **F A 190Z** 2 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass.
Any combination of F A 190–190Z may be taken a maximum of 6 times for credit.
.5 hour lecture, 3.5 hours laboratory for each unit of credit.
For students who desire additional help in attaining comprehension and competency in learning skills in a fine arts subject. Supervised by the division dean or designee.

## F A 192 COMMUNITY SERVICE LEARNING ACROSS THE CURRICULUM FOR FINE ARTS
Non-degree applicable credit course.
Advisory: Pass/No Pass.
May be taken 6 times for credit.
1 hour lecture, 3 hours laboratory.
For students who desire training and technical support in experiential learning as a community volunteer in specific fine arts disciplines.

---

**FASH 50** INTRODUCTION TO FASHION MERCHANDISING
4 Units
4 hours lecture.
Introduction to world of fashion with emphasis on history of fashion, including contemporary trends of fashion, basic concepts of design and fashion merchandising. Distribution and promotion of fashion merchandise, dynamics of fashion merchandising, fashion shows and modeling.

---

**FA 191Z**
- **FA 191Y** 2 Units
- **FA 191X** 3 Units
- **FA 191W** 4 Units
Any combination of FA 190–190Z may be taken for a maximum of 12 units.
1.5 hours laboratory.
Supervised activities in fine arts, for students who desire or require additional help in attaining improved writing and speaking abilities in specific fine arts disciplines.

---

**FA 92** COMMUNITY SERVICE LEARNING ACROSS THE CURRICULUM FOR FINE ARTS
Non-degree applicable credit course.
Advisory: Pass/No Pass.
May be taken 6 times for credit.
3 hours laboratory.
For students who desire training and technical support in experiential learning as a community volunteer in specific fine arts disciplines.

---

**FREN 1** ELEMENTARY FRENCH
5 Units
5 hours lecture, 2 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
Prerequisite: FREN 1 or 1 year of high school French.
5 hours lecture, 2 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
Prerequisite: FREN 2 or 2 years of high school French.
5 hours lecture, 2 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 S, CAN FREN SEQ A = FREN 1+2+3]

FREN 4  INTERMEDIATE FRENCH  5 Units
Prerequisite: FREN 3 or 3 years of high school French.
5 hours lecture, 1 hour laboratory.
Introduction to reading French literature. Further development of grammatical structures presented in first-year French. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in French. [CAN FREN 7, CAN FREN SEQ B = FREN 4+5+6]

FREN 5  INTERMEDIATE FRENCH  5 Units
Prerequisite: FREN 4 or 4 years of high school French.
5 hours lecture, 1 hour laboratory.
Continuation of FREN 4. Reading French literature and other materials intended for native speakers of French. Further development of grammatical structures presented in first year French. Emphasis on increased communicative competency, vocabulary building, and the distinction between informal and formal styles. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in French. [CAN FREN 9, CAN FREN SEQ B = FREN 4+5+6]

FREN 6  INTERMEDIATE FRENCH  5 Units
Prerequisite: FREN 5.
5 hours lecture, 1 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  4 Units
Prerequisite: FREN 3.
Advisory: May be taken concurrently with FREN 4.
4 hours lecture, 1 hour laboratory.
Review and development of oral and listening communication skills in the targeted functions studied in first-year French with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary French as well as the variation in language depending upon the topic, the setting, and the country. Discussion and analysis of cultural and historical issues based on authentic texts, current news broadcasts, and/or films. Develop critical thinking skills by comparing different viewpoints and different values of diverse cultures.

FREN 13B  INTERMEDIATE CONVERSATION II  4 Units
Prerequisite: FREN 13A
Advisory: May be taken concurrently with FREN 4.
4 hours lecture, 1 hour laboratory.
Continuation of FREN 13 A. Review and development of oral and listening communication skills in the targeted functions studied in first-year French with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary French as well as the variation in language depending upon the topic, the setting, and the country. Discussion and analysis of historical, political and cultural issues based on authentic texts, current news broadcasts, and/or films. Develop critical thinking skills by comparing different viewpoints and different values of diverse cultures.

FREN 14A  ADVANCED CONVERSATION I  4 Units
Prerequisite: FREN 13B or high school equivalent.
Advisory: May be taken concurrently with FREN 5.
4 hours lecture, 1 hour laboratory.
Designed to give students practice in oral/ aural communication skills in an environment of increasingly challenging language situations. Practice on idioms and vocabulary as different from the usage of formal, written and literary language. Work on differentiating and choosing the culturally appropriate register for a given situation. Discussion of the cultural manifestations and history of the French-speaking world. Special emphasis on idioms, vocabulary used in making complaints, apologizing, elaborating, and comprehension beyond the immediate situation.

FREN 14B  ADVANCED CONVERSATION II  4 Units
Prerequisite: FREN 14A.
Advisory: May be taken concurrently with FREN 6.
4 hours lecture, 1 hour laboratory.
Continuation of FREN 14A. Conversation course designed to allow students to interact in an environment of increasingly challenging language situations using complex communication skills. Emphasis on idioms, vocabulary and logical reasoning to express agreement, disagreement, doubt and skepticism on abstract topics. Comprehension of speech that is heavily reliant on cultural knowledge.

FREN 25A  ADVANCED COMPOSITION & READING  4 Units
Prerequisite: FREN 6.
4 hours lecture.
Reading and analysis of original French literary texts. Term paper, compositions, advanced grammar. Instruction in French.

FREN 25B  ADVANCED COMPOSITION & READING  4 Units
Prerequisite: FREN 25A.
4 hours lecture.
Reading and analysis of original French literary texts. Term paper, compositions.

FREN 34H  HONORS INSTITUTE SEMINAR IN FRENCH  1 Unit
Formerly: FREN 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in FREN 34.
1 hour lecture.
A seminar in directed readings, discussions, and projects in French. Specific topics to be determined by the instructor.

FREN 36  SPECIAL PROJECTS IN FRENCH  1 Unit
FREN 36X  2 Units
FREN 36Y  3 Units
FREN 36Z  4 Units
Prerequisite: FREN 5.
Advisory: Enrollment for this course is available in the Language Arts Division Office. Any combination of FREN 36–36Z may be taken a maximum of 6 times for credit.
1 hour lecture for each unit of credit.
A study oriented toward spoken or written practice or both in French. Development of research and critical techniques adapted to individual writing and/or oral presentation projects under instructor supervision. Not to be substituted for departmental requirements.

FREN 39  CONTEMPORARY FRANCOPHONE LITERATURE  4 Units
IN TRANSLATION
Advisory: Eligibility for ENGL 1A or equivalent recommended.
4 hours lecture.
Reading and study of selected literature from French speaking countries, which represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Discussion focuses on specific cultural, social, historical and political aspects as expressed through different literary genres.

FREN 190  DIRECTED STUDY  .5 Unit
FREN 190X  1 Unit
FREN 190Y  1.5 Units
FREN 190Z  2 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass.
Any combination of FREN 190–190Z may be taken a maximum of 6 times for credit.
.5 hour lecture of individualized instruction for each .5 unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

GEOP 1  PHYSICAL GEOGRAPHY  5 Units
Advisory: Eligibility for ENGL 1A or ESL 26 recommended; MATH 220 recommended.
4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory, 1 hour collaborative discussion.

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

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foot Hill College 2008–2009 www.foothill.edu
Study of the Earth's surface, including the earth's dimensions and systems; atmospheric processes; patterns of climate, vegetation and soils; and features, processes and interactions of land, water and various energy sources. Use of maps for interpretation.

**GEOG 2  HUMAN GEOGRAPHY  4 Units**
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 hours lecture, 1 hour laboratory.
The cultural-geographic landscape. Study of the human population from origins to the present with an emphasis on the future. Examination of population densities, migrations and settlements; races, languages and religions; patterns of land use and major environmental perceptions and problems. Analysis of energy, mineral, and food resources and how cultures utilize them. [CAN GEOG 4]

**GEOG 5  INTRODUCTION TO ECONOMIC GEOGRAPHY  4 Units**
4 hours lecture.
Introduction to the geography of economic activity; the world wide distribution and characteristics of agriculture, forestry, fishing, mining, manufacturing, transportation, high technology and international trade.

**GEOG 9  CALIFORNIA GEOGRAPHY  4 Units**
4 hours lecture.
Study of extreme regional variations within California. Factors contributing to landscape change. Examination of exploration, settlement, economic development, and urban-industrial-transportation patterns. Extensive use of maps, GIS, Internet and current events.

**GEOG 10  WORLD REGIONAL GEOGRAPHY  4 Units**
4 hours lecture.
Survey of the world's major culture regions and major nations. Physical, cultural, economic features. Emphasis on historical influences on population growth, transportation networks, natural environment, potential and problems. Location, importance and impact of the foremost features of countries, states, major cities, rivers and landform regions.

**GEOG 12  INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS)  4 Units**
3 hours lecture, 3 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 34H  HONORS INSTITUTE SEMINAR IN GEOGRAPHY  1 Unit**
Formerly: GEOG 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in GEOG 34.
1 hour lecture.
A seminar in directed readings, discussions and projects in geography. Specific topics to be determined by the instructor.

**GEOG 35  DEPARTMENT HONORS PROJECTS IN GEOGRAPHY  1 Unit**
May be taken 6 times for credit.
1 hour lecture.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

**GEOG 36  SPECIAL PROJECTS IN GEOGRAPHY  1 Unit**
**GEOG 36X  2 Units**
**GEOG 36Y  3 Units**
**GEOG 36Z  4 Units**
Any combination of GEOG 36–36Z may be taken a maximum of 6 times for credit.
1 hour lecture for each unit of credit.
Advanced readings, research, and/or project in geography. Specific topics determined in consultation with instructor.

**GEOG 52  ADVANCED GEOGRAPHIC INFORMATION SYSTEMS (GIS)  4 Units**
3 hours lecture, 3 hours laboratory.

**GEOG 54A  SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS  2 Units**
May be taken 2 times for credit.
2 hours lecture.
Seminar on the diverse applications of Geographic Information Systems (GIS). Weekly presentations by guest speakers.

**GEOG 54B  SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS  2 Units**
Formerly: GEOG 54
Corequisite: GEOG 54A.
6 hours laboratory.
Students undertake an original GIS project of their choosing under guidance of the instructor.

**GEOG 58  REMOTE SENSING & DIGITAL IMAGE PROCESSING  3 Units**
2 hours lecture, 3 hours laboratory.
Physical basis of remote sensing. Aerial photography and high resolution multi-band imaging. Satellite multi-band optical remote sensing. Other forms of remote sensing (RADAR, SAR, LIDAR). Applications of remote sensing.

**GEOG 59  CARTOGRAPHY, MAP PRESENTATION & DESIGN  2 Units**
1 hour lecture, 3 hours laboratory.
Map projections, geodes, coordinate systems. Map composition. Selection of colors and symbols.

**GEOG 73  DYNAMIC & INTERACTIVE MAPPING  4.5 Units**
Prerequisite: GEOG 12 and 52 or equivalent.
2.5 hours lecture, 6 hours laboratory.
Design and implementation of dynamic presentations for visualizing geographic information. Lab projects creating animated and multimedia presentations, and designing user-interfaces for interactive mapping systems.

**GEOG 78  GEOGRAPHIC INFORMATION SCIENCE PROJECTS  4.5 Units**
Prerequisite: GEOG 73.
2.5 hours lecture, 6 hours laboratory.
Implementation of geographic information science projects in a group environment for targeted applications. Design and application of interactive mapping systems and dynamic animation in a GIS environment. Example project areas include (but are not limited to) Web mapping and Web GIS; advanced spatial databases; integrating remote sensing and geographic information systems; and geographic Web services. Projects may involve client organizations.

**GEOG 90A  INTRODUCTION TO GIS FOR K-12 TEACHERS I: FUNDAMENTALS OF GEOGRAPHIC INFORMATION SYSTEMS SCIENCE  1 Unit**
1 hour lecture.
Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Assessment of vector and raster systems, scale, resolution, map projection and coordinate systems. Applications and uses of GIS and data visualization in the classroom and in and out of the classroom. Integration of technology intensive curriculum with the traditional classroom model.

**GEOG 90B  INTRODUCTION TO GIS FOR K-12 TEACHERS II: UTILIZING SPATIAL DATA & DATA ANALYSIS IN THE CLASSROOM  1 Unit**
1 hour lecture.

**GEOG 90C  INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS (GIS) FOR K-12 TEACHERS III: DESIGNING & IMPLEMENTING A GIS  1 Unit**
1 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
GEOL 100A  |  INTRODUCTION TO ARC VIEW GIS  |  .5 Unit
|  |  .5 hour lecture  |  |
|  |  Introduction to ESRI's ArcView GIS software. Fundamental GIS concepts. Hands-on experience with basic elements of project file set-up, managing projects and conducting basic queries.  |  |

GEOL 100B  |  INTRODUCTION TO GEO MEDIA & GEO MEDIA PRO  |  .5 Unit
|  |  .5 hour lecture  |  |
|  |  Introduction to Intergraph's GeoMedia and GeoMedia Pro GIS software. Fundamental GIS concepts. Hands-on experience working with GeoWorkspaces, Data Warehouses, and conducting basic queries.  |  |

GEOL 101  |  A PREFACE TO GIS: AN INTRODUCTION TO COMPUTER-BASED MAPPING & GIS  |  1 Unit
|  |  May be taken 2 times for credit.  |  |
|  |  1 hour lecture  |  |
|  |  Non-technical introduction to Geographic Information Systems (GIS) with an emphasis on applications and career opportunities. Includes the application of GIS in a range of disciplines, GIS software and data available, how Global Positioning Systems (GPS) integrate with GIS, and career opportunities with GIS. Students will be introduced to a variety of free and low cost software and provided with practical exercises.  |  |

**GEOLOGY**

Physical Sciences, Mathematics & Engineering  
(550) 949-7259  
www.foothill.edu/psme/

GEOL 3  |  GEOLOGY OF THE NATIONAL PARKS  |  4 Units
|  |  3 hours lecture, 1 hour lecture-discussion, 1 hour field trip.  |  |
|  |  Geologic concepts and processes responsible for shaping our national parks, including mountain building, volcanic and earthquake activity, sedimentation, weathering, erosion and glaciation. An understanding of how geology impacts our lives will be emphasized. Appropriate for both science and non-science majors who wish to enhance their knowledge, enjoyment and appreciation of our national parks. One Saturday field trip is required.  |  |

GEOL 7  |  NATURAL DISASTERS & EARTH CATASTROPHES  |  4 Units
|  |  4 hours lecture, 1 hour field trip.  |  |
|  |  The role of catastrophic processes and natural disasters in shaping the earth system and its impact on society. Earthquakes, volcanic eruptions, tsunamis, floods, severe weather, landslides, and meteorite impacts will be described, along with the role played by these rapid processes in the geological and biological evolution of the planet. Emphasis on the examination of cause and effect in catastrophic events and mitigation of natural disasters. One Saturday field trip required. Students are responsible for field trip costs.  |  |

GEOL 10  |  INTRODUCTORY GEOSCIENCE  |  5 Units
|  |  4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory, 1 hour field trip.  |  |
|  |  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]  |  |

GEOL 11  |  EVOLUTION OF THE EARTH  |  5 Units
|  |  Prerequisite: GEOL 10.  |  |
|  |  4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory, 2 hours field trip.  |  |
|  |  Evolution of the earth and the life it supports, as determined by the geologic and fossil records. Concepts governing change of the crust, oceans, and biosphere of the earth, evaluation of global climatic change. Two Saturday field trips are required. [CAN GEOL 4]  |  |

GEOL 22  |  PLANETARY GEOLOGY  |  3 Units
|  |  Advisory: GEOL 10 recommended.  |  |
|  |  2 hours lecture, 2 hours lecture-laboratory, 1 hour field trip.  |  |
|  |  The origin, composition, structure and evolution of lunar and planetary surface features as determined from manned and unmanned spacecraft and terrestrial observation. The techniques of interpreting the geology of planetary surfaces using digital imaging data from NASA spacecraft. One field trip to NASA-Ames Research Center or the U.S. Geological Survey Astrogeology section required.  |  |

GEOL 25  |  TECTONICS  |  3 Units
|  |  Advisory: GEOL 10 recommended.  |  |
|  |  2 hours lecture, 2 hours laboratory, 2 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 34H  |  HONORS INSTITUTE SEMINAR IN GEOLOGY  |  1 Unit
|  |  Prerequisite: Honors Institute participant.  |  |
|  |  1 hour lecture.  |  |
|  |  A seminar in directed readings, discussions and projects in geology. Specific topics to be determined by the instructor.  |  |

GEOL 36  |  SPECIAL PROJECTS IN GEOLOGY  |  1 Unit
|  |  1 Unit  |  |
|  |  2 Units  |  |
|  |  3 Units  |  |

GEOL 36X  |  2 Units  |  |

GEOL 36Y  |  3 Units  |  |

GEOL 95  |  EXCURSIONS IN GEOLOGY: ADDITIONAL TOPICS  |  1 Unit
|  |  Any combination of GEOL 36–36Z may be taken a maximum of 6 times for credit.  |  |
|  |  3 hours field trip.  |  |
|  |  Field trip to Lassen Volcanic National Park Northeastern California. Emphasis on determining the geologic history and evolution of the national park and its surrounding environs. All field trip costs are to be borne by the student.  |  |

GEOL 95A  |  EXCURSIONS IN GEOLOGY: LASSEN VOLCANIC NATIONAL PARK  |  1 Unit
|  |  Advisory: Not open to students who have taken GEOL 45A.  |  |
|  |  3 hours field trip.  |  |
|  |  Field trip to Lassen Volcanic National Park Northeastern California. Emphasis on determining the geologic history and evolution of the national park and its surrounding environs. All field trip costs are to be borne by the student.  |  |

GEOL 95B  |  EXCURSIONS IN GEOLOGY: YOSEMITE NATIONAL PARK  |  1 Unit
|  |  Prerequisite: GEOL 3 or 10 or equivalent experience.  |  |
|  |  Advisory: Not open to students with credit in GEOL 45B.  |  |
|  |  3 hours field trip.  |  |
|  |  Field trip to Yosemite National Park in the Sierra Nevada. Emphasis on determining the geologic history and evolution of the national park and its surrounding environs. All field trip costs are to be borne by the student.  |  |

GEOL 95C  |  EXCURSIONS IN GEOLOGY: HOLLISTER & PINNACLES NATIONAL MONUMENT  |  1 Unit
|  |  Advisory: Not open to students with credit in GEOL 45C.  |  |
|  |  3 hours field trip.  |  |
|  |  Field trip to the Hollister area and Pinnacles National Monument. Emphasis on discerning the movement history of the Calaveras fault and San Andreas transform margin, determination of the importance of the volcanic sequence in the national monument. All field trip costs are to be borne by the student.  |  |

GEOL 95D  |  EXCURSIONS IN GEOLOGY: OWENS VALLEY & EASTERN SIERRAS  |  1 Unit
|  |  Advisory: Not open to students with credit in GEOL 45D.  |  |
|  |  3 hours field trip.  |  |
|  |  Field trip to the Owens Valley and eastern Sierras of California. Emphasis on the tectonic and volcanic history of the area as well as its evidence for recent climatic change. All field trip costs are to be borne by the student.  |  |
GEOL 95E  EXCURSIONS IN GEOLOGY: NORTH COAST,  POINT REYES NATIONAL SEASHORE & SAN ANDREAS FAULT ZONE  1 Unit
Advisory: Not open to students with credit in GEOL 45E.  3 hours field trip.
Field trip to the Point Reyes National Seashore. Emphasis on determining the geologic history and evolution of the national seashore and its critical position in understanding the evolution of the San Andreas fault zone. All field trip costs are to be borne by the student.

GEOL 99A  GEOLOGIC EXPEDITIONS: DEATH VALLEY & COLORADO PLATEAU  3 Units
Advisory: Not open to students with credit in GEOL 49A.  1 hour lecture-laboratory, 1 hour laboratory, 7 hours field trip.
Field trip to the Western Basin, Range Province and Colorado Plateau. Destinations include Death Valley, Bryce Canyon, Zion and Grand Canyon National Parks. Emphasis on determining the geologic history and evolution of this spectacular region. All field trip costs are to be borne by the student.

GERMAN

Language Arts  (560) 949-7250  www.foothill.edu/ia/

GERM 1  ELEMENTARY GERMAN  5 Units
5 hours lecture, 2 hours laboratory.
Intensive oral practice of basic, every-day language functions. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax. [CAN GERM 1, CAN GERM SEQ A = GERM 1+2+3]

GERM 2  ELEMENTARY GERMAN  5 Units
Prerequisite: GERM 1 or 1 year of high school German.  5 hours lecture, 2 hours laboratory.
Further development of material presented in GERM 1. Intensive oral practice broadening the functions presented in GERM 1 and adding new ones. Greater emphasis on student generated discussion. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax. [CAN GERM 2, CAN GERM SEQ A = GERM 1+2+3]

GERM 3  ELEMENTARY GERMAN  5 Units
Prerequisite: GERM 2 or 2 years of high school German.  5 hours lecture, 2 hours laboratory.
Further development of material presented in GERM 1 and 2. Intensive oral practice of basic, every-day language functions. Written practice to further understanding of the underlying grammatical and syntactical structures. Language laboratory practice to reinforce pronunciation, grammar and syntax. [CAN GERM 3, CAN GERM SEQ A = GERM 1+2+3]

GERM 4  INTERMEDIATE GERMAN  5 Units
Prerequisite: GERM 3 or 3 years high school German.  5 hours lecture, 1 hour laboratory.
Introduction to reading German literature. Recycling of grammatical structures presented in first-year German. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in German. [CAN GERM 4, CAN GERM SEQ B = GERM 4+5+6]

GERM 5  INTERMEDIATE GERMAN  5 Units
Prerequisite: GERM 4 or 4 years of high school German.  5 hours lecture, 1 hour laboratory.
Continued introduction to reading German literature. Recycling of grammatical structures presented in first-year German. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in German. [CAN GERM 5, CAN GERM SEQ B = GERM 4+5+6]

GERM 6  INTERMEDIATE GERMAN  5 Units
Prerequisite: GERM 5.  5 hours lecture, 1 hour laboratory.
Continued introduction to reading German literature. Recycling of grammatical structures presented in first-year German. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in German. [CAN GERM 6, CAN GERM SEQ B = GERM 4+5+6]

GERM 8  POST WORLD WAR II GERMANY  4 Units
Prerequisite: GERM 8.
4 hours lecture.
Exploration of historical, political and cultural developments in Germany 1945 to the present. Perspectives on the construction of a German national identity/identities and historical memory through literature and film. Interdisciplinary approach to analyze the existence of the two German states and the development of German unification.

GERM 13A  INTERMEDIATE CONVERSATION I  4 Units
Prerequisite: GERM 3.
4 hours lecture, 1 hour laboratory.
Designed to give students practice in complex communication skills in an environment of increasingly challenging language situations. Emphasis on idioms and vocabulary as different from the usage of formal written and literary language.

GERM 13B  INTERMEDIATE CONVERSATION II  4 Units
Prerequisite: GERM 13A.
4 hours lecture, 1 hour laboratory.
Continuation of GERM 13B. Designed to give students practice in complex communication skills in an environment of increasingly challenging language situations. Emphasis on idioms and vocabulary as different from the usage of formal written and literary language.

GERM 14A  ADVANCED CONVERSATION I  4 Units
Prerequisite: GERM 13B.
4 hours lecture, 1 hour laboratory.
Continuation of GERM 13B. Designed to give students practice in complex communication skills in an environment of increasingly challenging language situations. Emphasis on idioms and vocabulary as different from the usage of formal written and literary language.

GERM 14B  ADVANCED CONVERSATION II  4 Units
Prerequisite: GERM 14A.
4 hours lecture, 1 hour laboratory.
Continuation of GERM 14A. Designed to give students practice in complex communication skills in an environment of increasingly challenging language situations. Emphasis on idioms and vocabulary as different from the usage of formal written and literary language.

GERM 25A  ADVANCED COMPOSITION & READING  4 Units
Prerequisite: GERM 6.
4 hours lecture.
Extensive reading and analysis of texts and literature as exponents of the culture and history of German-speaking countries with emphasis on the short story. Intensive discussions about the readings in class as well as compositions and advanced grammar.

GERM 25B  ADVANCED COMPOSITION & READING  4 Units
Prerequisite: GERM 25A.
4 hours lecture.
Continuation of GERM 25A. Extensive reading and analysis of texts and literature as exponents of the culture and history of German-speaking countries with special emphasis on the novel, novella and poetry. Intensive discussions about the readings in class as well as compositions.

GERM 34H  HONORS INSTITUTE SEMINAR IN GERMAN  1 Unit
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in GERM 34.  1 hour lecture.
A seminar in directed readings, discussions, and projects on issues relevant to the history and/or culture of German-speaking countries. Specific topics to be determined by the instructor.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
**GERM 36**  SPECIAL PROJECTS IN GERMAN  
1 Unit
1 hour lecture for each unit of credit.  
A study oriented toward spoken and/or written practice in German. Development of research techniques and critical thinking skills for individual writing and/or oral presentation projects. Specific topics vary from quarter to quarter. This course cannot be substituted for departmental requirements.

**Germ 39**  GERMAN LITERATURE IN TRANSLATION  
4 Units  
Advisory: Eligibility for ENGL 1A recommended.  
4 hours lecture.  
Reading and study of selected literature from German-speaking countries. Discussion focus on specific cultural, social and historical aspects as expressed through different literary periods.

**GRAPHICS & INTERACTIVE DESIGN**

Fine Arts & Communication  
(550) 949-7571  
www.foothill.edu/graphicdesign/

**GID 1**  HISTORY OF GRAPHIC DESIGN  
4 Units  
Advisory: Not open to students with credit in ART 36 or GRDS 36.  
4 hours lecture, 1 hour laboratory.  
A study of the development of visual communication in art, graphic design, illustration and popular culture. Emphasis on the role, impact and interpretation of images, symbols, and typography used in informative and persuasive media.

**GID 20**  DIGITAL VIDEO PRODUCTION I  
4 Units  
Advisory: Not open to students with credit in VART 20 or GRDS 20.  
3 hours lecture, 2.5 hours lecture-laboratory.  
Basic instruction in concepts, techniques, and strategies of DV video production. Basic camera, lighting and sound recording will be covered through technical workshops. Emphasis on video story telling and creative problem solving.

**GID 38**  PRINTMAKING I  
4 Units  
Advisory: ART 4A and 5A recommended. Not open to students with credit in GRDS 69.  
May be taken 3 times for credit.  
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.  
Introduction to the printmaking processes of relief, intaglio, screenprinting and monoprinting. Theory and practice making limited-edition and one-of-a-kind fine art prints.

**GID 39**  PRINTMAKING II  
4 Units  
Prerequisite: GID 38.  
May be taken 3 times for credit.  
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.  
Continuation of Printmaking I. Multi-color printing and photographic processes for relief, intaglio, screenprinting and paper plate lithography. Theory and practice making limited-edition and one-of-a-kind fine art prints.

**GID 40**  DIGITAL PRINTMAKING  
4 Units  
Advisory: ART 56 or GID 74 recommended; Not open to students with credit in GRDS 71.  
May be taken 3 times for credit.  
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.  
Introduction to the creative, expressive and experimental possibilities of using digital media to produce fine art prints. Emphasis on image creation, printing technologies and printing techniques.

**GID 42**  BEGINNING ETCHING  
3 Units  
Advisory: Not open to students with credit in ART 37A or GRDS 37A.  
6 hours lecture-laboratory.  
Beginning techniques in printmaking, including embossing, monoprinting, chine colle, drypoint, softground, line etching, handcoloring, printing and the editioning of plates.

**GID 44**  BEGINNING RELIEF PRINTMAKING  
3 Units  
Advisory: ART 4A and 5A recommended.  
May be taken 6 times for credit.  
6 hours lecture-laboratory.  
An introduction to relief printing processes, exploring the basic techniques of embossing, linoleum block, wood block and collagraph printing.

**GID 46**  BEGINNING SCREENPRINTING  
3 Units  
Advisory: ART 4A or 5A; not open to students with credit in ART 39A or GRDS 39A.  
6 hours lecture-laboratory.  
An introduction to screen printing processes, exploring the basic techniques for making cut stencil designs and drawn stencil images.

**GID 48**  MONOPRINTING  
3 Units  
Advisory: Not open to students with credit in ART 49.  
May be taken 3 times for credit.  
6 hours lecture-laboratory.  
Studio experiences in printmaking methods that create one-of-a-kind fine art prints. Emphasis on artistic growth of imagery while developing technical skills with tools, media and techniques.

**GID 50**  GRAPHIC DESIGN STUDIO I  
4 Units  
Advisory: Not open to students with credit in GRDS 53.  
2 hours lecture, 2 hours lecture-laboratory, 3 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 Illustrator and Photoshop to complete the graphic design activities in this course.

**GID 51**  GRAPHIC DESIGN STUDIO II  
4 Units  
Prerequisite: GID 50.  
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.  
Continuation of GID 51. Students design and produce a real-world graphic design campaign. Focus on creative solutions that effectively use type, image, and layout. Projects include branding, identity, newsletter, Web site, and package design. Creative ideas are explored in sketches, rough layouts, and finished comps. Students learn software skills using Adobe InDesign, Illustrator, and Photoshop to complete the graphic design activities in this course.

**GID 52**  GRAPHIC DESIGN STUDIO III  
4 Units  
Prerequisite: GID 51.  
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.  
Continuation of GID 51. Students design and produce a real-world graphic design campaign. Focus on creative solutions that effectively use type, image, and layout. Projects include branding, identity, newsletter, Web site, and package design. Creative ideas are explored in sketches, rough layouts, and finished comps. Students learn software skills using Adobe InDesign, Illustrator, Photoshop, and Macromedia Dreamweaver to complete the graphic design activities in this course.

**GID 54**  TYPOGRAPHY  
4 Units  
Advisory: GID 50 and 74 or proficiency using InDesign/Quark software recommended; not open to students with credit in GRDS 62.  
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.  
Introduction to the creative, expressive and experimental possibilities of using typography in ads, posters, newsletters and other visual communications. 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 56**  Web site DESIGN  
4 Units  
Advisory: GID 50; proficiency using Dreamweaver, Illustrator and Photoshop software recommended; not open to students with credit in GRDS 94.  
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.  
Basic instruction using the computer for Web site and interface design. Emphasis on interactive media and creative problem solving.
GID 60 CAREERS IN THE VISUAL ARTS 2 Units
Advisory: Not open to students with credit in VART 50 or GRDS 50. 2 hours lecture.
Exploring the field of visual arts including fine arts, design, graphic design, photography, video arts, new media, and theatre arts. Survey of transfer schools, art studios, company art departments, advertising agencies and job opportunities for creative services professionals.

GID 61 PORTFOLIO 4 Units
Advisory: Not open to students with credit in GRDS 77. 6 hours lecture-laboratory, 3 hours laboratory.
Preparation for displaying work samples when seeking employment. Planning ahead for the individual student professional “book” with emphasis on selection, size, arrangement, color coordination, effectiveness and appropriateness.

GID 62 SERVICE LEARNING PROJECTS 4 Units
Advisory: Completion of entry level design and software courses recommended; not open to students with credit in GRDS 83. May be taken 3 times for credit. 6 hours lecture-laboratory, 3 hours laboratory.
Fulfillment of work-related assignments for on-campus and off-campus not-for-profit organizations. Faculty coordinator helps the student apply skills learned in graphic arts courses to community-based projects. Disciplines include graphic design, photography and studio art.

GID 64A GRAPHIC & INTERACTIVE DESIGN EXPERIENTIAL INTERNSHIP 4 Units
May be taken 6 times for credit. 12 hours laboratory.
Off-campus supervised experiential education of graphic and interactive design students. Opportunity for practical application of knowledge, skills and abilities acquired in graphic and design as well as other related course work. Opportunity for additional hands-on training in all aspects graphic design. Exposure to varied protocols, methodologies and practices in a professional working environment.

GID 64B GID EXPANDED EXPERIENTIAL INTERNSHIP 6 Units
May be taken 2 times for credit. 18 hours laboratory.
Off-campus supervised experiential education of graphic and interactive design students. Opportunity for practical application of knowledge, skills and abilities acquired in graphic and design as well as other related course work. Opportunity for additional hands-on training in all aspects graphic design. Exposure to varied protocols, methodologies and practices in a professional studio/work environment.

GID 70 GRAPHIC DESIGN DRAWING 4 Units
Advisory: Not open to students with credit in GRDS 60. 2 hours lecture, 2 hours lecture-laboratory, 2 hours laboratory.
Developing drawing skills for communicating ideas. Learning to simplify complex realistic images to express design concepts rapidly and effectively.

GID 71 STORYBOARDING 4 Units
Advisory: GID 70 recommended; not open to students with credit in GRDS 76. 2 hours lecture, 2 hours lecture-laboratory, 3 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
Advisory: Not open to students with credit in GRDS 73A. May be taken for a maximum of 12 units for credit. 2 hours lecture, 2 hours lecture-laboratory, 3 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 DIGITAL ART & GRAPHICS 4 Units
Advisory: Familiarity with computer operating systems, ART 4A or GID 70; ART 5A; PHOT 1 recommended; not open to students with credit in ART 56 or PHOT 75 or GRDS 56. May be taken 3 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 3 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
Advisory: ART 4A or GID 70 recommended. GID 74 or familiarity with painting and drawing software recommended; not open to students with credit in GRDS 90. May be taken 3 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 3 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
Advisory: Not open to students with credit in ART 88, DRAM 86, VART 86, MUS 86 or GRDS 86. 2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Basic instruction using the computer for emerging media technologies; digital sound, video editing, and animation. Emphasis on time based media and creative problem solving.

GID 84 MOTION GRAPHICS 4 Units
Advisory: One of the following: GID 80, ART 88, MUS 86, DRAM 86, VART 86; not open to students with credit in VART 87 or GRDS 87. 2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Basic instruction using the computer for motion graphic design and composite digital video production. Emphasis on time based media and its application to creative problem solving and communication solutions.

GID 90 BOOK ARTS I 4 Units
Advisory: Not open to students with credit in GRDS 96. May be taken 3 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Introduction to the skills and techniques of the book arts. Students will learn construction and mounting skills for books, boxes and portfolios. Traditional and non-traditional binding formats include stab, accordion, concertina and signature sewing. Emphasis on form building while exploring content and narrative.

GID 91 BOOK ARTS II 4 Units
Prerequisite: GID 90. May be taken 3 times for credit. Continuation of Book Arts I. Studio experiences in making art that takes book form. Students will learn strategies for content development; design, layout and typography; and narrative structures, pacing and sequencing. Reproduction techniques include traditional and digital media including relief printing, stencil printing, transfer printing and commercial printing. Emphasis on content and narrative while advancing book construction skills.

GID 92 LETTERPRESS PRINTING 4 Units
Advisory: GID 50 and 74 recommended; Not open to students with credit in GRDS 40. May be taken 3 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Studio practice in letterpress printing to create limited-edition prints and books. Introduction to handset type, hand-carved relief plates and photopolymer plates. Emphasis on technical skills with tools and media, visual communication, and aesthetics of print media.

GID 94 BOOK ARTS PROFESSIONAL PRACTICES 3 Units
May be taken for a maximum of 18 units of credit. 2 hours lecture, 2 hours lecture-laboratory.
Introduction to the professional practices of the book artist and book arts organizations. Application of strategies to create, critique, exhibit and distribute artist’s books. Participation in community based learning through the organization and implementation of book art events and activities.

GID 95 GRAPHIC ARTS STUDIO PROJECTS 4 Units
Prerequisite: Enrollment subject to instructor’s approval. May be taken 3 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Application of principles and theories introduced in previously taken graphic arts courses to student-motivated projects. Projects address information gathering, idea generation, concept development, production and distribution.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
From the Neolithic period to the early Middle Ages.

4 hours lecture.

Supervised studio practice in printmaking projects. Application of skills learned

HiST 4a HiSTOrY OF WeSTerN ciViLiZaTiON 4 Units
Business & Social Sciences  (650) 949-7322
Prerequisite: Eligibility for ENGL 1A or ESL 26 recommended.
4 hours lecture.
Survey of the development of Western society and culture from the early Middle Ages through the Age of Enlightenment. Emphasis upon the cultural, social, intellectual, and institutional changes that led to the birth of the modern Western culture and its interchange with the peoples of the world’s continents.

HiST 4b HiSTOrY OF WESTERN CiViLiZaTIoN 4 Units
4 hours lecture.
Survey of the development of Western society and culture from the early Middle Ages through the Age of Enlightenment. Emphasis upon the cultural, social, intellectual, and institutional changes that led to the birth of the modern Western culture and its interchange with the peoples of the world’s continents.

HiST 4c HiSTOry OF WESTerN CiViLiZaTiOn 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 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 4C HiSTOry OF WESTerN CiViLiZaTIoN 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 hours lecture.
Survey of the development of Western society and culture during the nineteenth and twentieth centuries. Emphasis upon the social, intellectual, and institutional changes that have led to the contemporary Western world and its interchange with the peoples and institutions of the world’s continents.

HiST 4CH HOnORs HiSTOry OF WESTerN CiViLiZaTIoN 4 Units
Prerequisite: Honors Institute participant.
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 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 4d HiSTOry OF WESTerN CiViLiZaTIoN 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 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.
4 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
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 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. Global impacts.

HiST 9H HOnORs HiSTOry OF CONTeMPorARy eUrOPe 4 Units
Prerequisite: Honors Institute participant.
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 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. Global impacts. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class lectures, group discussions and interactions.

HiST 10 HiSTOry OF CaLiFOrNIA: THE MULTICULTURAL STaTE 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 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.

HiST 15 HiSTOry OF MeXiCO 4 Units
4 hours lecture.
Pre-Columbian civilizations, the Spanish conquest, and development of Mexico since independence; evolution of political, economic and social institutions; relationship with the United States.
HIST 16 INTRODUCTION TO ANCIENT ROME 4 Units
Advisory: HIST 4A or equivalent recommended; eligibility for ENGL 1A or ESL 26 recommended.
4 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 16H HONORS INTRODUCTION TO ANCIENT ROME 4 Units
Prerequisite: Honors Institute participant.
Advisory: HIST 4A or equivalent recommended; eligibility for ENGL 1A or ESL 26 recommended.
4 hours lecture.
Enhanced comprehensive study of Roman history from the founding of Rome to the
reign of Constantine. Emphasis upon the political, social, economic development in the Late
Republic and Empire. Consideration of literature, art, architecture, texts in translation.
As an honors course, it is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class lectures, group discussions and interactions.

HIST 17A HISTORY OF THE UNITED STATES TO 1816 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 hours lecture.
American civilization through 1816. Survey of United States history. Political, economic and social development.

HIST 17B HISTORY OF THE UNITED STATES FROM 1816 TO 1914 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 hours lecture.
American civilization from 1816 to 1914. Survey of United States history and its
political, economic and social development.

HIST 17C HISTORY OF THE UNITED STATES FROM 1900 TO THE PRESENT 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
4 hours lecture.
American civilization from 1900 to 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.
4 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.
4 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
Advisory: Eligibility for ENGL 1A or ESL 26.
4 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
Advisory: Eligibility for ENGL 1A or ESL 26.
4 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; eligibility for ENGL 1A or ESL 26 recommended.
4 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
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
4 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 34H HONORS INSTITUTE SEMINAR IN HISTORY 1 Unit
Formerly: HIST 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in HIST 34.
1 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 2 Units
HIST 35Y 3 Units
HIST 35Z 4 Units
Any combination of HIST 35–35Z may be taken a maximum of 6 times for credit.
1 hour lecture.
Seminar in historical readings, research, critical techniques and practice. Specific
topics vary.

HIST 36 SPECIAL PROJECTS IN HISTORY 1 Unit
HIST 36X 2 Units
HIST 36Y 3 Units
HIST 36Z 4 Units
Any combination of HIST 36–36Z may be taken a maximum of 6 times for credit.
1 hour lecture.
Advanced readings, research and/or project in history. Specific topics determined
in consultation with instructor.

HUMAN PERFORMANCE
See Physical Education

HUMANITIES

HUMN 1A HUMANITIES & THE MODERN EXPERIENCE 4 Units
4 hours lecture, 1 hour 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.

HUMN 1B HUMANITIES & THE MODERN EXPERIENCE 4 Units
4 hours lecture, 1 hour laboratory.
An interdisciplinary survey of some of the cultural aspects of major civilizations from
the Italian Renaissance to the present day, and their influence upon modern experiences.
Illustrations of the cultural diversity which makes up modern life. Attendance at
instructor approved lectures, performing arts events, and/or cultural exhibitions.
HUMN 34H HONORS INSTITUTE SEMINAR IN HUMANITIES 1 Unit
Formerly: HUMN 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in HUMN 34.
1 hour lecture.
A seminar in directed readings, discussions, and projects in humanities. Specific topics to be determined by the instructor.

HUMN 36 SPECIAL PROJECTS IN HUMANITIES 1 Unit
HUMN 36X 2 Units
HUMN 36Y 3 Units
Any combination of HUMN 36–36Y may be taken for a maximum of 8 units.
1 hour lecture.
Intensive study of selected topics in humanities or interdisciplinary courses in humanities. Subjects may vary from quarter to quarter.

ITALIAN
Language Arts (650) 949-7250 www.foothill.edu/la/

ITAL 110 ITALIAN LANGUAGE & CULTURE 2.5 Units
Non-degree applicable credit course.
2.5 hours lecture, 1 hour 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.

ITAL 111 ITALIAN LANGUAGE & CULTURE 2.5 Units
Non-degree applicable credit course.
2.5 hours lecture, 1 hour laboratory.
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.

ITAL 112 ITALIAN LANGUAGE & CULTURE 2.5 Units
Prerequisite: ITAL 111.
2.5 hours lecture, 1 hour laboratory.
Intermediate-level course designed to further deepen students’ ability to communicate in Italian on a variety of topics. Emphasis on the active use of Italian in conjunction with acquisition of the four language skills. Particular attention given to the use of tenses. Increased knowledge and understanding of Italy, its customs, its regional differences, and its history.

ITAL 113 ITALIAN LANGUAGE & CULTURE 2.5 Units
Prerequisite: ITAL 112.
2 hours lecture, 2 hours laboratory.
Continued practice in grammar, conversation, and composition at an advanced intermediate level. Greater emphasis on refining complex grammatical points. Increased oral and written fluency through exposure to more advanced reading texts and more challenging conversational exercises. Focus on Italy’s people, culture, and history for the introduction of lexical themes.

JAPANESE
Language Arts (650) 949-7043 www.foothill.edu/la/

JAPN 1 ELEMENTARY JAPANESE 5 Units
5 hours lecture, 2 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 1 year of high school Japanese.
5 hours lecture, 2 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 2 years of high school Japanese.
5 hours lecture, 2 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 3 years of high school Japanese.
5 hours lecture, 1 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 4 years of high school Japanese.
5 hours lecture, 1 hour laboratory.
Continuation of Japanese 4. Development of intermediate-level grammatical structures and communicative tasks. Further practice in intensive oral and written drills, including additional 150 Kanji, in idiomatic constructions. Composition, conversation and selected readings. Differentiating socio-linguistic features, such as honorifics, feminine and masculine styles. Cultural skills to carry out tasks. Language laboratory practice. [CAN JAPN 8 = JAPN 4+5, CAN JAPN SEQ B = JAPN 4+5+6]

JAPN 6 INTERMEDIATE JAPANESE 5 Units
Prerequisite: JAPN 5.
5 hours lecture, 1 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 4 Units
Prerequisite: JAPN 3.
Advisory: May be taken concurrently with JAPN 4.
May be taken 6 times for credit.
4 hours lecture, 1 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
JAPN 13B  INTERMEDIATE CONVERSATION II  4 Units
Prerequisite: JAPN 13A.
Advisory: May be taken concurrently with JAPN 5.
May be taken 6 times for credit.
4 hours lecture, 1 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  4 Units
Prerequisite: JAPN 13B.
May be taken 6 times for credit.
4 hours lecture, 1 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  4 Units
Prerequisite: JAPN 14A.
Advisory: May be taken concurrently with JAPN 6.
May be taken 6 times for credit.
4 hours lecture, 1 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.
4 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.
4 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 recommended.
4 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 34H  HONORS INSTITUTE SEMINAR IN JAPANESE  1 Unit
Formerly: JAPN 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in JAPN 34.
1 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
Prerequisite: JAPN 5.
Any combination of JAPN 36–36Z may be taken a maximum of 6 times for credit.
1 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 36X  .5 Unit
JAPN 36Y  1.5 Units
JAPN 36Z  2 Units
Advisory: Pass/No Pass.
May be taken 6 times for credit.
.5 hour lecture for each .5 unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

JAPN 190  DIRECTED STUDY  1 Unit
.5 Unit
1 Unit
1.5 Units
2 Units
Advisory: Pass/No Pass.
May be taken 6 times for credit.
.5 hour lecture for each .5 unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

JAPN 190X  2 Units
JAPN 190Y  1 Units
JAPN 190Z  2 Units
Advisory: Pass/No Pass.
May be taken 6 times for credit.
1 hour lecture, 3 hours laboratory.
For students who desire training and technical support in experiential learning as a community volunteer in Japanese language and culture.

KOREAN

KOre 1 eLementary KoRean 5 Units
5 hours lecture, 2 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 1 year of high school Korean.
5 hours lecture, 2 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 2 years of high school Korean.
5 hours lecture, 2 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
KORE 4  INTERMEDIATE KOREAN  5 Units
Prerequisite: KORE 3 or equivalent.
5 hours lecture, 1 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.
5 hours lecture, 1 hour laboratory.

KORE 6  INTERMEDIATE KOREAN  5 Units
Prerequisite: KORE 5 or equivalent.
5 hours lecture, 1 hour laboratory.
Introduction to reading Korean literature. Further development of grammatical structures presented in first year Korean. Emphasis on increased communicative competency and vocabulary building. Limited amount of essay writing based on material discussed in class. Study of idiomatic expressions in Korean. Reading and discussion of texts dealing with Korean literature, arts, history and culture.

KORE 103  KOREAN BUSINESS CULTURE & ETIQUETTE  1 Unit
1 hour lecture.
Introduction to basic Korean business etiquette and culture. Basic business greetings and interactions. Culturally appropriate behavior and body language. The role of gift giving and socializing in a business setting. The decision-making process in Korean corporate culture.

LANGUAGE ARTS

Language Arts (550) 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. 36–36Z may be taken a maximum of 6 times for credit.
1 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
Advisory: Eligibility for ENGL 1A recommended.
May be taken 6 times for credit.
2 hours lecture-laboratory.
Introduction to theories and methods of effective tutoring, including role of a tutor, relationship of tutor to learner, assessment of learner, and creating a lesson plan, utilizing different methods.

L.A. 111  PASS THE TORCH TEAM LEADER TRAINING  1 Unit
Prerequisite: An earned “A” or “B+” grade with instructor recommendation in one of the following courses: ESL 25, 26; ENGL 100, 110, 1A, 1B; student must currently be a team leader for a Pass the Torch study team. May be taken 3 times for credit.
1 hour lecture.
Training in team leading skills necessary for assisting a member in the Pass the Torch Program, including study skills, college policies, professionalism, ethics and role modeling of successful student behavior. Techniques of subject-specific tutoring skills, with attention given to diverse learning styles. Practice of these skills through sample student works and, when applicable, content-specific suggestions from the member’s instructor.

LEARNING IN NEW MEDIA CLASSROOMS

Computers, Technology & Information Systems (650) 949-7498
www.foothill.edu/kci/linc/

LINC 50  TECHNOLOGY IN THE K-12 CLASSROOM  1 Unit
Formerly: LINC 255
Advisory: Familiarity with PC or Mac recommended.
May be taken 6 times for credit.
1 hour lecture, 2 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 50A  TECHNOLOGY IN THE K-12 CLASSROOM I  .5 Unit
Formerly: LINC 255S
Advisory: Familiarity with PC or Mac recommended.
May be taken 6 times for credit.
.5 hour lecture, .5 hour 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 50B  TECHNOLOGY IN THE K-12 CLASSROOM II  .5 Unit
Formerly: LINC 255T
Advisory: Familiarity with PC or Mac recommended.
May be taken 6 times for credit.
.5 hour lecture, .5 hour 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 50F  INTEGRATING TECHNOLOGY INTO A STANDARDS-BASED CURRICULUM I  2 Units
Formerly: LINC 225
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.
May be taken 6 times for credit.
2 hours lecture, 2 hours terminal time.
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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LINC 50G</td>
<td>INTEGRATING TECHNOLOGY INTO A STANDARDS-BASED CURRICULUM I (BTSA)</td>
<td>1</td>
<td>Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit. 1 hour lecture, 1 hour terminal time. 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.</td>
</tr>
<tr>
<td>LINC 51</td>
<td>INTEGRATING TECHNOLOGY INTO LANGUAGE ARTS</td>
<td>1</td>
<td>Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit. 1 hour lecture, 1 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.</td>
</tr>
<tr>
<td>LINC 51A</td>
<td>INTEGRATING TECHNOLOGY INTO LANGUAGE ARTS K-5</td>
<td>.5</td>
<td>Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit. .5 hour lecture, .5 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.</td>
</tr>
<tr>
<td>LINC 51B</td>
<td>INTEGRATING TECHNOLOGY INTO LANGUAGE ARTS 6-8</td>
<td>.5</td>
<td>Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit. .5 hour lecture, .5 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.</td>
</tr>
<tr>
<td>LINC 52</td>
<td>INTEGRATING TECHNOLOGY INTO SCIENCE</td>
<td>1</td>
<td>Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit. 1 hour lecture, 1 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.</td>
</tr>
<tr>
<td>LINC 52A</td>
<td>INTEGRATING TECHNOLOGY INTO SCIENCE K-5</td>
<td>.5</td>
<td>Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit. .5 hour lecture, .5 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.</td>
</tr>
<tr>
<td>LINC 52B</td>
<td>INTEGRATING TECHNOLOGY INTO SCIENCE 6-8</td>
<td>.5</td>
<td>Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit. .5 hour lecture, .5 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.</td>
</tr>
<tr>
<td>LINC 52C</td>
<td>TEACHING SCIENCE USING BAY AREA MUSEUMS</td>
<td>2</td>
<td>Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit. 2 hours lecture, 2 hours terminal time. This course addresses the growing need for K-8 teachers to change the way they teach science and improve student science literacy/ achievement. This course helps teachers to develop their own science content best practice knowledge while learning to use online resources for curriculum alignment with the CA science standards and many different Bay Area science, technology, and children's museums, zoos, aquariums, nature centers, observatories/planetariums, and other informal science institutions.</td>
</tr>
<tr>
<td>LINC 53</td>
<td>INTEGRATING TECHNOLOGY INTO MATHEMATICS</td>
<td>1</td>
<td>Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit. 1 hour lecture, 1 hour terminal time. How to integrate a student-centered technology project based on the California Mathematics Content Standards, State approved Mathematics text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.</td>
</tr>
<tr>
<td>LINC 53A</td>
<td>INTEGRATING TECHNOLOGY INTO MATHEMATICS K-5</td>
<td>.5</td>
<td>Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit. .5 hour lecture, .5 hour terminal time. How to integrate a student-centered technology project based on the California Mathematics Content Standards, State approved Mathematics text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.</td>
</tr>
</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
LINC 55B INTEGRATING TECHNOLOGY INTO MATHEMATICS 6-8 .5 Unit
Formerly: LINC 263T
Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills.
May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
How to integrate a student-centered technology project based on the California Mathematics Content Standards, State approved Mathematics text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.

LINC 54 INTEGRATING TECHNOLOGY INTO SOCIAL STUDIES 1 Unit
Formerly: LINC 264
Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills.
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
How to integrate a student-centered technology project based on the California Social Studies Content Standards, State approved Social Studies text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.

LINC 54A INTEGRATING TECHNOLOGY INTO SOCIAL STUDIES K-12 .5 Unit
Formerly: LINC 264S
Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills.
May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
How to integrate a student-centered technology project based on the California Social Studies Content Standards, State approved Social Studies text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.

LINC 54B INTEGRATING TECHNOLOGY INTO SOCIAL STUDIES 6-8 .5 Unit
Formerly: LINC 264T
Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills.
May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
How to integrate a student-centered technology project based on the California Social Studies Content Standards, State approved Social Studies text books, ISTE Technology Standards, and new California Technology Standards for teacher certification into classroom curriculum. Techniques in creating technology rich student assignments project that support the content standards and No Child Left Behind Act as well as assessment and integration of technology into projects will be taught.

LINC 55 LEARNING A FOREIGN LANGUAGE USING TECHNOLOGY I 3 Units
Formerly: LINC 266
May be taken 6 times for credit.
3 hours lecture, 1 hour terminal time.
Introduction to various methods of foreign language acquisition. Hands-on experience using the target foreign language search engines and developing multimedia projects and presentations.

LINC 55A LEARNING A FOREIGN LANGUAGE USING TECHNOLOGY II 2 Units
Formerly: LINC 268
May be taken 6 times for credit.
2 hours lecture, 1 hour terminal time.
This course introduces Flash to the students in the context of them using it in a classroom setting. There will be a collaborative project wherein each student will display their results to other members of the class.

LINC 55B TEACHING MATH & SCIENCE WITH TECHNOLOGY 3 Units
Formerly: LINC 274
May be taken 6 times for credit.
Three hour lecture, 3 hours lecture-laboratory.
This course is intended for math and science teachers who wish to use technology more effectively to enhance teaching and learning. A major part of this class will be examining the processes of mathematical and scientific investigation and problem solving such as observing, predicting, inferring, hypothesizing, evaluating and model building. This will be a hands-on class where participants will create presentations, concept maps, WebQuests and lessons using technology.

LINC 56A WORKSHOP FOR NEW PHYSICS TEACHERS I 1.5 Units
Formerly: LINC 268S
May be taken 6 times for credit.
1.5 hours lecture.
Introduction of physics instruction to out-of-field teachers or people new to teaching. Includes standards, good practices and effective use of educational materials.

LINC 56B WORKSHOP FOR NEW PHYSICS TEACHERS II 1.5 Units
Formerly: LINC 268T
May be taken 6 times for credit.
1.5 hours lecture.
Introduction of physics instruction to out-of-field teachers or people new to teaching. Includes standards, good practices and effective use of educational materials.

LINC 58 GLOBAL PROJECT-BASED LEARNING 2 Units
Formerly: LINC 224
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.
May be taken 6 times for credit.
2 hours lecture, 2 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 58A E-PORTFOLIOS 1 Unit
Formerly: LINC 223
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
This course is a how-to on e-portfolios as authentic assessment. Electronic portfolios can be used for student work as well as for teacher professional development. Reflective practice that deepens learning will be presented. Student e-portfolios will be examined and analyzed. Computer tools that enable students to create powerful e-portfolios will be examined.

LINC 58B CHOOSING THE BEST MEDIA FOR PROJECTS 2 Units
Formerly: LINC 222
May be taken 6 times for credit.
2 hours lecture, 2 hours terminal time.
This course is an overview of the pros and cons of several software applications that are used as tools for student projects. An analysis of the tools that deepen student learning of academic content will be discussed. Participants will try creating mini projects using various software and analyzing their own learning. Applications such as Inspiration, Photoshop MovieWorks, HyperStudio, PowerPoint, Creator, and MicroWorlds Pro will be explored.

LINC 60 INTRODUCTION TO COMPUTER BASICS 1 Unit
Formerly: LINC 293
May be taken 3 times for credit.
1 hour lecture, 1 hour terminal time.
Hands-on introduction to the computer: Hardware Components; Basic Interface, File Organization; Operating System; Introduction to Word Processing, Spreadsheets, & Graphics.

LINC 60A INTRODUCTION TO THE MACINTOSH 1 Unit
Formerly: LINC 295
Advisory: Familiarity with Macintosh computer recommended.
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Provides hands on experience with a Macintosh computer. Hardware components and capabilities will be explored, along with basic troubleshooting skills.
LINC 60B  INTRODUCTION TO THE PC  1 Unit
Formerly: LINC 299
Advisory: Familiarity with PC recommended. 
May be taken 6 times for credit. 
1 hour lecture, 1 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 60D  ITOOLS: I LiFE & MAC BUNDLED SOFTWARE  1 Unit
Formerly: LINC 256
Advisory: Familiarity with Macintosh and OS X.
May be taken 6 times for credit. 
1 hour lecture, 1 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 60J  PROGRAMMING  1 Unit
Formerly: LINC 299
Advisory: Familiarity with PC or Mac recommended. 
Basic internet skills.
May be taken 6 times for credit. 
1 hour lecture. 
Programming with Alice will teach you to program a computer, but uses a completely different and more enjoyable approach which allows students to drag-and-drop words in a direct manipulation interface rather than having to correctly type commands according to obscure rules of syntax. In addition, Alice defines object-based programming by providing animated, on-screen 3D virtual objects.

LINC 60K  GAME-BASED LEARNING  1 Unit
Formerly: LINC 243
Advisory: Familiarity with PC or Mac. 
May be taken 6 times for credit. 
1 hour lecture, 2 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.

LINC 61A  MICROSOFT OFFICE  1 Unit
Formerly: LINC 272
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. 
May be taken 6 times for credit. 
1 hour lecture, 1 hour terminal time. 
Provides students with an overview of Microsoft Office. Hands on experience of Word, Power Point and Excel will give students a basic knowledge of the classroom uses of the Office Suite.

LINC 61B  IWORK: PAGES, KEYNOTE & NUMBERS  1 Unit
Formerly: LINC 250
Advisory: Basic understanding how to use a Macintosh Computer. 
May be taken 6 times for credit. 
1 hour lecture, 1 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 61C  IWORK I  .5 Unit
Formerly: LINC 250S
Advisory: Basic understanding how to use a Macintosh Computer. 
May be taken 6 times for credit. 
.5 hour lecture, .5 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 61D  IWORK II  .5 Unit
Formerly: LINC 250T
Advisory: Basic understanding how to use a Macintosh Computer. 
May be taken 6 times for credit. 
.5 hour lecture, .5 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 65B  FILEMAKER PRO  1 Unit
Formerly: LINC 275
Advisory: Basic computer skills, use of a keyboard and mouse; a basic understanding of how to use menus is advisable. May be taken 6 times for credit. 1 hour lecture, 1 hour terminal time.
Introduction to Filemaker Pro, a relational database tool; hands-on experience. Intended for Continuing Education.

LINC 66  INTRODUCTION TO THE INTERNET  1 Unit
Formerly: LINC 206
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit. 1 hour lecture, 1 hour terminal time. This is a comprehensive course to learn to use email and the Internet. Participants will learn how to understand the vocabulary and anatomy of email and web addresses, distinguish between the different types of email accounts, and learn appropriate netiquette, and ethical and legal issues related using the Internet in the classroom. An array of online educational resources to enhance the curriculum will be given. Participants will explore online projects, lesson plans, and resources from around the world. Netscape Communicator and Microsoft Internet Explorer will be the tools used. The course includes: How to use the Internet from home or school, hands-on experience with E-Mail, File Transfer Protocol (FTP), and Listservs, Basics of the Browser, Bookmarks, Search Engines, and Basic Searching Strategies. It is intended for continuing education.

LINC 66A  INTRODUCTION TO THE INTERNET I  .5 Unit
Formerly: LINC 206S
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit. .5 hour lecture, .5 hour terminal time.
This is a comprehensive course to learn to use email and the Internet. Participants will learn how to understand the vocabulary and anatomy of email and web addresses, distinguish between the different types of email accounts, and learn appropriate netiquette, and ethical and legal issues related using the Internet in the classroom. An array of online educational resources to enhance the curriculum will be given. Participants will explore online projects, lesson plans, and resources from around the world. Netscape Communicator and Microsoft Internet Explorer will be the tools used. The course includes: How to use the Internet from home or school, hands-on experience with E-Mail, File Transfer Protocol (FTP), and Listservs, Basics of the Browser, Bookmarks, Search Engines, and Basic Searching Strategies. It is intended for continuing education.

LINC 66B  INTRODUCTION TO THE INTERNET II  .5 Unit
Formerly: LINC 206T
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit. .5 hour lecture, .5 hour terminal time.
This is a comprehensive course to learn to use email and the Internet. Participants will learn how to understand the vocabulary and anatomy of email and web addresses, distinguish between the different types of email accounts, and learn appropriate netiquette, and ethical and legal issues related using the Internet in the classroom. An array of online educational resources to enhance the curriculum will be given. Participants will explore online projects, lesson plans, and resources from around the world. Netscape Communicator and Microsoft Internet Explorer will be the tools used. The course includes: How to use the Internet from home or school, hands-on experience with E-Mail, File Transfer Protocol (FTP), and Listservs, Basics of the Browser, Bookmarks, Search Engines, and Basic Searching Strategies. It is intended for continuing education.

LINC 66C  SEARCHING & RESEARCHING THE INTERNET  2 Units FOR EDUCATORS
Formerly: LINC 208
Advisory: Familiarity with PC or Mac recommended. Basic Internet and Email skills. May be taken 6 times for credit. 2 hours lecture, 2 hours terminal time.
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 66D  BLOGGING, SYNDICATION & PODCASTING  1 Unit
Formerly: LINC 283
Advisory: Not open to students with credit in COIN 212. May be taken 3 times for credit. 1 hour lecture.
Blogs, RSS, and podcasting have all received a lot of publicity in the popular press recently. Like many emerging technologies, the expectations are that everyone is just supposed to know all about them, even without training or learning opportunities. This class will explain, demonstrate and provide hands-on experience with each of these technologies. At the end of the class, participants will have their own weblog and first-hand knowledge and understanding of the power of syndication when used to gather and disseminate knowledge and information. Using sound-editing software, students will also create their own podcast and upload it to the web (iPod not necessary).

LINC 66E  BLOGGING, SYNDICATION & PODCASTING I  .5 Unit
Formerly: LINC 283S
Advisory: Not open to students with credit in COIN 212. May be taken 3 times for credit. 5 hour lecture.
Blogs, RSS, and podcasting have all received a lot of publicity in the popular press recently. Like many emerging technologies, the expectations are that everyone is just supposed to know all about them, even without training or learning opportunities. This class will explain, demonstrate and provide hands-on experience with each of these technologies. At the end of the class, participants will have their own weblog and first-hand knowledge and understanding of the power of syndication when used to gather and disseminate knowledge and information. Using sound-editing software, students will also create their own podcast and upload it to the web (iPod not necessary).

LINC 67A  HYPERSTUDIO  1 Unit
Formerly: LINC 245
Advisory: Familiarity with PC or Macintosh. May be taken 6 times for credit. 1 hour lecture, 1 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.

LINC 67B  DRAWING K-5  .5 Unit
Formerly: LINC 247
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit. .5 hour lecture, .5 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.

LINC 67C  DRAWING 6-8  .5 Unit
Formerly: LINC 248
Advisory: Familiarity with PC or Mac. Basic Internet skills. May be taken 6 times for credit. .5 hour lecture, .5 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.

LINC 70  WEB PAGE DESIGN OVERVIEW  1 Unit
Formerly: LINC 200
Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit. 1 hour lecture, 2 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 70A  WEB PAGE DESIGN I  .5 Unit
Formerly: LINC 200S
Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit. .5 hour lecture, 1 hour terminal time. Design and creation of World Wide Web pages using Adobe GoLive. Hands-on experience creating Web pages. Intended for Continuing Education.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
LINC 70B WEB PAGE DESIGN II 1 Unit
Formerly: LINC 211
Advisory: Familiarity with PC or Mac recommended. Basic Internet and email skills.
May be taken 2 times for credit.
1 hour lecture, 2 hours terminal time.

LINC 71B FREE WEB AUTHORIZING TOOLS 1 Unit
Formerly: LINC 207
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.
1 hour lecture, 1 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 72A ADOBE ACROBAT I 1 Unit
Formerly: LINC 232
Advisory: Familiarity with PC or Mac. May be taken 6 times for credit.
1 hour lecture, 1 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.

LINC 72B INDESIGN OVERVIEW 1 Unit
Formerly: LINC 234
Advisory: Familiarity with PC or Mac; any word processing software. May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
InDesign is an application for the creation flyers, newsletters, yearbooks, 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.

LINC 72C ADOBE INDESIGN I .5 Unit
Formerly: LINC 234S
Advisory: Familiarity with PC or Mac; any word processing software. May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
InDesign is an application for the creation flyers, newsletters, yearbooks, trifold and other desktop published items. InDesign features page layout tools that fully integrate with Photoshop, Illustrator, Acrobat, and other Adobe products. Its features are intuitive, allowing the user to be creative. This course provides the basics of page layout using Adobe InDesign. Students will create a publication by placing text and graphics.

LINC 72D ADOBE INDESIGN II .5 Unit
Formerly: LINC 234T
Advisory: Familiarity with PC or Mac; any word processing software. May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
InDesign is an application for the creation flyers, newsletters, yearbooks, trifold and other desktop published items. InDesign features page layout tools that fully integrate with Photoshop, Illustrator, Acrobat, and other Adobe products. Its features are intuitive, allowing the user to be creative. This course provides the basics of page layout using Adobe InDesign. Students will create a publication by placing text and graphics.

LINC 72F MACROMEDIA FREEHAND 1 Unit
Formerly: LINC 240
Advisory: Familiarity with PC or Mac. May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Provides hands-on experience with the basic elements and tools of Macromedia Freehand, a software drawing tools. Includes basic concepts and methods of creating images.

LINC 72G ADOBE PAGEMAKER 1 Unit
Formerly: LINC 229
Advisory: Familiarity with PC or Mac recommended. May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
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 73 PHOTOSHOP OVERVIEW 1 Unit
Formerly: LINC 230
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit.
1 hour lecture, 1 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.

LINC 73A ADOBE PHOTOSHOP I .5 Unit
Formerly: LINC 230S
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit.
.5 hour lecture, .5 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.

LINC 73B ADOBE PHOTOSHOP II .5 Unit
Formerly: LINC 230T
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit.
.5 hour lecture, .5 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.

LINC 73C PHOTOSHOP OVERVIEW 1 Unit
Formerly: LINC 231
Advisory: Familiarity with PC or Mac. Basic Internet skills. May be taken 6 times for credit.
1 hour lecture, 1 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.

LINC 73D PHOTOSHOP ELEMENTS OVERVIEW 1 Unit
Formerly: LINC 231
Advisory: Familiarity with PC or Mac. Basic Internet skills. May be taken 3 times for credit.
1 hour lecture, 1 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.

LINC 73E PHOTOSHOP ELEMENTS I .5 Unit
Formerly: LINC 231S
Advisory: Familiarity with PC or Mac. Basic Internet skills. May be taken 3 times for credit.
.5 hour lecture, .5 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.

LINC 73F PHOTOSHOP ELEMENTS II .5 Unit
Formerly: LINC 231T
Advisory: Familiarity with PC or Mac. Basic Internet skills. May be taken 3 times for credit.
.5 hour lecture, .5 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.
LINC 73H ILLUSTRATOR OVERVIEW 1 Unit
Formerly: LINC 233
Advisory: Familiarity with PC or Mac. May be taken 6 times for credit.
1 hour lecture, 1 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.

LINC 73I ADOBE ILLUSTRATOR I .5 Unit
Formerly: LINC 233S
Advisory: Familiarity with PC or Mac. May be taken 6 times for credit.
.5 hour lecture, .5 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.

LINC 73J ADOBE ILLUSTRATOR II .5 Unit
Formerly: LINC 233T
Advisory: Familiarity with PC or Mac. May be taken 6 times for credit.
.5 hour lecture, .5 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.

LINC 74 ADOBE DREAMWEAVER 1 Unit
Formerly: LINC 209
Advisory: Familiarity with PC or Mac recommended. Basic Internet and Email skills. May be taken 6 times for credit.
1 hour lecture, 2 hours terminal time.

LINC 74A ADOBE DREAMWEAVER I .5 Unit
Formerly: LINC 209S
Advisory: Familiarity with PC or Mac recommended. Basic Internet and Email skills. May be taken 6 times for credit.
.5 hour lecture, 1 hour terminal time.

LINC 74B ADOBE DREAMWEAVER II .5 Unit
Formerly: LINC 209T
Advisory: Familiarity with PC or Mac recommended. Basic Internet and Email skills. May be taken 6 times for credit.
.5 hour lecture, 1 hour terminal time.

LINC 74M MICROSOFT FRONTPAGE 1 Unit
Formerly: LINC 205
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.

LINC 76 CREATING EDUCATIONAL WEB SITES 2 Units
Formerly: LINC 210
May be taken 6 times for credit.
2 hours lecture, 2 hours terminal time.
This course explores the tools that make a Web site stand out and hold the viewer’s attention. Participants will be instructed on how to add graphics, QuickTime movies, and sound to Web sites. Elements of design and ideas for effective Web sites will be discussed.

LINC 76A CREATING EDUCATIONAL WEB SITES I 1 Unit
 Formerly: LINC 210S
May be taken 6 times for credit.
1 hour lecture, hour terminal time.
This course explores the tools that make a Web site stand out and hold the viewer’s attention. Participants will be instructed on how to add graphics, QuickTime movies, and sound to Web sites. Elements of design and ideas for effective Web sites will be discussed.

LINC 76B CREATING EDUCATIONAL WEB SITES II 1 Unit
Formerly: LINC 210T
May be taken 6 times for credit.
1 hour lecture, hour terminal time.
This course explores the tools that make a Web site stand out and hold the viewer’s attention. Participants will be instructed on how to add graphics, QuickTime movies, and sound to Web sites. Elements of design and ideas for effective Web sites will be discussed.

LINC 76C CREATING WEB QUESTS 2 Units
Formerly: LINC 202
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit.
2 hours lecture, 2 hours terminal time.
Provides a goal and focus for web searching which requires students to transform information into a new form. WebQuests are web-based, curriculum-based challenges with student resources and activities. Existing WebQuests will be explored as well as a step-by-step approach to creating one’s own.

LINC 80 MULTIMEDIA OVERVIEW 1 Unit
Formerly: LINC 251
May be taken 6 times for credit.
1 hour lecture, 1 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 80A MULTIMEDIA IN THE CLASSROOM 1 Unit
Formerly: LINC 252
May be taken 6 times for credit.
1 hour lecture, 1 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 80B MULTIMEDIA IN THE CLASSROOM I .5 Unit
Formerly: LINC 252S
May be taken 6 times for credit.
.5 hour lecture, .5 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 80C EASY & FOOLPROOF DESIGN FOR MULTIMEDIA 2 Units
Formerly: LINC 249
May be taken 6 times for credit.
2 hours lecture, 1 hour terminal time.
Introduction to various methods of developing multimedia projects using a variety of tools.

LINC 81 USING DIGITAL IMAGES 1 Unit
Formerly: LINC 257
Advisory: Not open to students with credit for COIN 211A.
May be taken 3 times for credit.
1 hour lecture.
Use your digital images for fun and profit! Learn how to create hard or soft cover books, calendars, note cards and more to make great gifts or remembrances. Create collateral materials for use in projects or presentations. Easy quick and fun!
LINC 81A  USING DIGITAL IMAGES I  .5 Unit
Formerly: LINC 257S
Advisory: Not open to students with credit for COIN 211A.
May be taken 3 times for credit.
.5 hour lecture.
Use your digital images for fun and profit! Learn how to create hard or soft cover books, calendars, note cards and more to make great gifts or remembrances. Create collateral materials for use in projects or presentations. Easy quick and fun!

LINC 81B  MACROMEDIA FIREWORKS I  1 Unit
Formerly: LINC 237
Advisory: Familiarity with PC or Mac.
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Provides hands-on experience with the basic elements and tools of Macromedia Fireworks, a digital photo editing software, to set up files, manage documents, and perform basic image processing. Includes basic concepts and methods of developing images and creating special effects and problem solving.

LINC 81C  MACROMEDIA FIREWORKS II  1 Unit
Formerly: LINC 286
Advisory: Familiarity with Fireworks and DreamWeaver recommended.
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Provides hands-on experience with 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 82  ADOBE LIVEMOTION  1 Unit
Formerly: LINC 256
Advisory: Familiarity with Adobe GoLive or simlar Web page authoring software, Adobe Photoshop or similar photo editing software, QuickTime, and Macromedia Flash.
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Adobe LiveMotion is an application that allows for the creation of dynamic, interactive content in a variety of formats, including MacromediaÆ Flash (SWF) and QuickTimeÆ. 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 83A  ADOBE PREMIER  1 Unit
Formerly: LINC 236
Advisory: Familiarity with PC or Mac, scanning photos, using a digital still and digital video camera.
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Adobe Premiere provides students with skills necessary to create digital movies. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and the 'Ken Burns Effect' as well as other special effects in their movies.

LINC 83B  MACROMEDIA DIRECTOR  1 Unit
Formerly: LINC 239
Advisory: Familiarity with Mac or PC; Basic word processing, multimedia and image editing software.
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Macromedia Director is an 2D animation and authoring tool for interactive multimedia applications. Create, combine, and synchronize animation, graphics, and text, with audio and video. Add interactivity to presentations and student projects Intended for Continuing Education.

LINC 83C  IMOVIE I  1 Unit
Formerly: LINC 241
Advisory: Familiarity with Mac.
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Using the software application, iMovie, to produce movies on the computer with video clips captured from a video format camcorder with background audio, voice-over narrations, sound effects, transitions and titles.

LINC 83D  IMOVIE II  .5 Unit
Formerly: LINC 241S
Advisory: Familiarity with Mac.
May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
Using the software application, iMovie, to produce movies on the computer with video clips captured from a video format camcorder with background audio, voice-over narrations, sound effects, transitions and titles.

LINC 83E  IMOVIE III  .5 Unit
Formerly: LINC 241T
Advisory: Familiarity with Mac.
May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
Using the software application, iMovie, to produce movies on the computer with video clips captured from a video format camcorder with background audio, voice-over narrations, sound effects, transitions and titles.

LINC 85A  MACROMEDIA FLASH I  .5 Unit
Formerly: LINC 238S
Advisory: Familiarity with Fireworks or similar photo editing software and with DreamWeaver or similar Web page authoring software.
May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
Macromedia Flash is an animation and authoring tool for interactive multimedia applications. Create, combine, and synchronize animation, graphics, and text, with audio and video. Intended for continuing education.

LINC 85B  MACROMEDIA FLASH II  .5 Unit
Formerly: LINC 238T
Advisory: Familiarity with Fireworks or similar photo editing software and with DreamWeaver or similar Web page authoring software.
May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
Macromedia Flash is an animation and authoring tool for interactive multimedia applications. Create, combine, and synchronize animation, graphics, and text, with audio and video. Intended for continuing education.

LINC 85C  MACROMEDIA FLASH III  1 Unit
Formerly: LINC 287
Advisory: Familiarity with Flash, Fireworks and DreamWeaver is recommended.
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Macromedia Flash is an animation and authoring tool for interactive multimedia applications. Create, combine, and synchronize animation, graphics, and text, with audio and video for your Web site with navigation controls animated features and long-form animations with synchronized sound. Export Flash to HTML Intended for continuing education.

LINC 90  INTERNET TECHNOLOGY  5 Units
Formerly: LINC 203
Advisory: Familiarity with PC or Mac. Basic Internet skills.
May be taken 3 times for credit.
4 hours lecture, 4 hours terminal time.
Use the Internet to connect and communicate over the World Wide Web and e-mail, retrieve current useful information using searching tools, prepare a simple HTML Web pages, and locate Internet resources to find educational resources and information appropriate for use in the classroom.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
LINC 90A WEBINARS 1 Unit
Formerly: LINC 290
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Webinars allow for synchronous and asynchronous instruction. This course will use CCC Confex and other online tools including digital video, PowerPoint and Internet resources to demonstrate relevant, short, and to the point practical classroom and learning applications of Webinars.

LINC 90B OPEN EDUCATION RESOURCES 1 Unit
Formerly: LINC 215
May be taken 6 times for credit.
1 hour lecture.
Introduction to Open Educational Resources (OER) and the use of public domain learning materials for teaching. Build educators knowledge and skills necessary to find, adapt, repurpose and create accessible OER for use in their classes. Specific topics covered include OER terminology, OER best practices and case studies, copyright and fair use issues as they pertain to OER, sources and depositories of public domain learning materials in various disciplines, technical issues regarding accessibility of public domain learning materials, and uses of Creative Commons licenses, tools and standards available to develop, organize and disseminate public domain learning materials, searching techniques for identifying public domain learning materials, professional collaboration strategies, criteria for assessing the suitability of public domain learning materials for use various disciplines, lesson plan development that incorporates use of the identified public domain learning materials.

LINC 90C ONLINE COLLABORATION TOOLS 2 Units
Formerly: LINC 214
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills.
May be taken 6 times for credit.
2 hours lecture, 2 hours terminal time.
Collaboration is a fundamental basic skill of learning and work in the 21st century. This course will explore some different kinds of collaborative technologies using the Internet and Web—and how these can be integrated with curriculum and student projects to help provide students with experience in both effective communication and learning using new media, as well as providing teachers tools for planning and assessing collaborative student projects.

LINC 93A CREATING MORE EFFECTIVE VISUAL AIDS 3 Units
Formerly: LINC 289
May be taken 6 times for credit.
3 hours lecture, 3 hours terminal time.
Educational research has shown that students demonstrate greater recall and understanding of materials presented in the classroom when pictorial representations of ideas and concepts accompany verbal information. In the class you will learn to create more effective PowerPoint presentations and overhead slides, and gain first-hand experience developing concept maps and visual organizers. In addition, you will learn about research on cognitive and multimedia learning and explore how to apply these ideas in classroom instruction.

LINC 93B ASSISTIVE TECHNOLOGY & UNIVERSAL ACCESS 1 Unit
Formerly: LINC 221
Advisory: Familiarity with PC or Mac. Basic Internet skills.
May be taken 3 times for credit.
1 hour lecture, 1 hour terminal time.
This course is 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 95A CHILD SAFETY, INTERNET ETHICS & CYBER LAW 2 Units
Formerly: LINC 219
May be taken 6 times for credit.
2 hours lecture, 2 hours lecture/lab.
Computer and Internet Ethics and Cyberlaw will review the current issues and legislation in computer ethics and cyberlaw. Copyright, fair use, legal implications and Acceptable Use Plans will be explored. The course will also cover Internet Safety and Child Safety on the Internet including the ability to evaluate the validity of Internet Resources. Throughout-out the course, you will be working towards developing strategies to protect your students while using the Internet.

LINC 95B TECHNOLOGY ETHICS & CYBER LAW 1 Unit
Formerly: LINC 220
Advisory: Familiarity with PC or Mac. Basic Internet skills.
May be taken 2 times for credit.
1 hour lecture, 1 hour terminal time.
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 95C ASSESSMENT STRATEGIES FOR TECHNOLOGY INTEGRATION 1 Unit
Formerly: LINC 260
Advisory: Familiarity with PC or Mac recommended. Familiarity with technology integration in the classroom and the Internet.
May be taken 6 times for credit.
1 hour lecture, 1 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 96A ALPHASMARTS 1 Unit
Formerly: LINC 285
Advisory: Familiarity with PC or Mac.
May be taken 2 times for credit.
1 hour lecture, 2 hours terminal time.
How to use the AlphaSmart Keyboard in the classroom; hands-on experience. Intended for continuing education.

LINC 96B HANDHELD DIGITAL MEDIA DEVICES I .5 Unit
Formerly: LINC 292A
Advisory: Familiarity with basic computer skills.
May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
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, beamng, downloading and using available software, and other tools and functions.

LINC 96C HANDHELD DIGITAL MEDIA DEVICES II .5 Unit
Formerly: LINC 292B
Advisory: Familiarity with basic computer skills.
May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
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, beamng, downloading and using available software, and other tools and functions. Emphasis on educational applications available.

LINC 98 DIRECTED STUDIES IN DIGITAL LEARNING 1 Unit
Formerly: LINC 228
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Using various applications in the context of the K-12 classroom.

LINC 98A DIRECTED STUDY IN DIGITAL LEARNING I .5 Unit
Formerly: LINC 228S
May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
Using various applications in the context of the K-12 classroom.

LINC 98B DIRECTED STUDY IN DIGITAL LEARNING II .5 Unit
Formerly: LINC 228T
May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
Using various applications in the context of the K-12 classroom.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
LINC 98M INTRODUCTION TO BIOINFORMATICS 1 Unit
Formerly: LINC 265
May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Introduction to bioinformatics and NCBI. Hands-on tour of key bioinformatics Web sites, focusing on NCBI (National Center for Biotechnology Information) and the use of bioinformatics databases, tools, and methods. Use of BLAST, multiple sequence alignment, genome databases, simple protein modeling tools, and online scientific journals. The course is built around problem centered learning, with exercises built on current real-world medical and biological problems.

LINC 201 DREAMWEAVER FOR TEACHERS 2 Units
Non-degree applicable credit course.
May be taken 6 times for credit.
2 hours lecture, 1 hour terminal time.
Introduction to Dreamweaver to create simple Web sites for use in the classroom.

LINC 204 INTRODUCTION TO THE INTERNET & E-MAIL FOR THE EDUCATOR 1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac recommended. Familiarity with basic Internet skills. May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
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.

LINC 226 OVERVIEW OF INTEGRATING TECHNOLOGY INTO A STANDARDS-BASED CURRICULUM 1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
This is an introduction to integrating technology into classroom curriculum. Participants will learn to include text, sound, and animation in their PowerPoint presentation. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and animation in their PowerPoint presentation.

LINC 227 ROBOTICS IN THE CLASSROOM FOR EDUCATORS 2 Units
Non-degree applicable credit course.
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. 2 hours lecture, two 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.

LINC 238 MACROMEDIA FLASH 1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with Flash or similar photo editing software and with Dreamweaver or similar Web page authoring software. May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
Macromedia Flash is an animation and authoring tool for interactive multimedia applications. Create, combine, and synchronize animation, graphics, and text, with audio and video. Intended for continuing education.

LINC 242 OVERVIEW OF CREATING ANIMATIONS WITH MORPHINK 1 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC. May be taken 6 times for credit.
1 hour lecture, 1 hour terminal time.
Provides hands-on experience using the animation software, Morphink. Participants will develop animation skills.

LINC 244S CREATING DIGITAL MOVIES WITH MOVIEWORKS .5 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac recommended. Basic Internet skills. May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
Provides students with skills necessary to create digital movies using MovieWorks. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and animation in their movies.

LINC 246S INTRODUCTION TO PRESENTATION SOFTWARE FOR EDUCATORS: POWERPOINT .5 Unit
Non-degree applicable credit course.
Advisory: Familiarity with PC or Mac recommended. Basic internet skills. May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
Provides students with skills necessary to create projects using Microsoft PowerPoint. Projects are standards based and appropriate for classroom use. Students will learn to include text, sound, and animation in their PowerPoint presentation.

LINC 257T USING DIGITAL IMAGES .5 Unit
Non-degree applicable credit course.
Advisory: Not open to students with credit for COIN 211A. May be taken 3 times for credit.
.5 hour lecture.
Use your digital images for fun and profit! Learn how to create hard or soft cover books, calendars, note cards and more to make great gifts or memorabilia. Create collateral materials for use in projects or presentations. Easy quick and fun!

LINC 257S OVERVIEW OF FILEMAKER PRO FOR EDUCATORS .5 Unit
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. May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
Introduction to Filemaker Pro, a relational database tool; hands-on experience. Intended for continuing education.

LINC 275T OVERVIEW OF FILEMAKER PRO FOR EDUCATORS .5 Unit
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. May be taken 6 times for credit.
.5 hour lecture, .5 hour terminal time.
Introduction to Filemaker Pro, a relational database tool; hands-on experience. Intended for continuing education.

LINC 276 DESIGNING HYBRID INSTRUCTION 2 Units
Non-degree applicable credit course.
May be taken 6 times for credit.
2 hours lecture.
The purpose of this course is to provide faculty an opportunity to design a lesson applying the instructional design process to the development of hybrid courses.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
**LIBRARY SCIENCE**

Library Learning Resources  
(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.  
9 hours laboratory.  
An in-depth analysis of the resources of an academic library’s print and non-print collections, including computer searching. This is an independent studies 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 36–36Z may be taken a maximum of 6 times for credit.  
.5 hour lecture, .5 hour terminal time.  
Provides hands-on experience with a Macintosh computer. Hardware components and capabilities of OS X will be explored.

**LIBR 50**  
INTRODUCTION TO LIBRARY SKILLS  
1 Unit  
Advisory: Not open to students with credit in LIBR 1.  
3 hours laboratory.  
An introduction to the use of print and non-print resources in an academic library. This is an independent studies course for inexperienced library users and/or students for whom English is a second language.

**LIBR 71**  
RESEARCH PAPER SEARCH STRATEGIES  
1 Unit  
Advisory: Familiarity with Macs or PCs.  
May be taken 3 times for credit.  
1 hour lecture.  
Strategies and methods to identify a research topic and then find and evaluate information in various formats to meet the identified information need. Consideration of the ethical and legal uses of information. Interdisciplinary application of concepts, often covering multicultural topics.

**LIBR 90A**  
LIBRARY INFORMATION SEMINARS  
.5 Unit  
Advisory: Pass/No Pass.  
May be taken 6 times for credit.  
.5 hour lecture.  
In-depth analysis and study of specific topics concerning operations, procedures, new developments and trends in information technology and library sciences.

**LIBR 90B**  
LIBRARY INFORMATION SEMINARS  
.5 Unit  
Advisory: Pass/No Pass.  
May be taken 6 times for credit.  
.5 hour lecture.  
In-depth analysis and study of specific topics concerning operations, procedures, new developments and trends in information technology and library sciences.

**LINC 294**  
INTRODUCTION TO THE COMPUTER FOR EDUCATORS  
4 Units  
Non-degree applicable credit course.  
2 hours lecture, 2 hours lecture-laboratory, 2 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 297**  
MAC OPERATING SYSTEMS  
.5 Unit  
Advisory: Familiarity with Macintosh recommended.  
May be taken 6 times for credit.  
.5 hour lecture, .5 hour terminal time.  
Provides hands-on experience with a Macintosh computer. Hardware components and capabilities of OS X will be explored.

**LINGUISTICS**

Language Arts  
(650) 949-7250  
www.foothill.edu/la/

**LING 23**  
MODERN ENGLISH: FUNCTION & GRAMMAR  
4 Units  
Prerequisite: Eligibility for ENGL 1A.  
Advisory: Not open to students with credit in LING 23.  
4 hours lecture.  
Introduction to basic linguistic concepts in describing the functions and grammar of present-day English. Focus on grammatical features of standard American English, Black English, and other English varieties as they function in the diverse types of communication between Americans, as well as in global interaction. Analysis of modern English relevant for those interested in refining their English, students of ESL and foreign languages, and prospective writers and language teachers.

**LING 25**  
INTRODUCTION TO DESCRIPTIVE & HISTORICAL LINGUISTICS  
4 Units  
Prerequisite: Eligibility for ENGL 1A.  
Advisory: Not open to students with credit in ENGL 25, 25H, or LING 25H.  
4 hours lecture.  
Introduction to linguistic concepts in the study of structure, pattern, meaning, and change in language, with emphasis on British and American English. Introduction to historical linguistic theory and methods as applied to investigation of origin and development of spoken and written language. Offered Fall quarters.

**LING 25H**  
HONORS INTRODUCTION TO DESCRIPTIVE & HISTORICAL LINGUISTICS  
4 Units  
Prerequisite: Eligibility for ENGL 1A; Honors Institute participant.  
Advisory: Not open to students with credit in ENGL 25, 25H, or LING 25.  
4 hours lecture.  
Introduction to linguistic concepts in the study of structure, pattern, meaning, and change in language, with emphasis on British and American English. Introduction to historical linguistic theory and methods as applied to investigation of origin and development of spoken and written language. Honors section offers rigorous preparation in linguistic studies for students intending to transfer to a four-year college or university. Two research or fieldwork projects are required. Offered Fall quarters.

**LING 26**  
LANGUAGE, MIND & SOCIETY  
4 Units  
Prerequisite: Eligibility for ENGL 1A.  
Advisory: Not open to students with credit in ENGL 26.  
4 hours lecture.  
Introduction to methods of linguistic analysis and basic concepts in psycholinguistics and sociolinguistics. Topics include function of the brain in language acquisition and language loss by mono/bilingual children and adults; role of language in society; language variability in diverse ethnic groups of speakers and diverse social uses; education and language planning. Offered Spring quarters.

---

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
**LING 34H**  HONORS INSTITUTE SEMINAR IN LINGUISTICS  1 Unit  
**Formerly:** LING 34  
**Prerequisite:** Honors Institute participant.  
**Advisory:** Not open to students with credit in LING 34.  
1 hour lecture.  
A seminar in directed readings, discussions and projects in linguistics. Specific topics to be determined by the instructor.

---

**MATH 1A**  CALCULUS  5 Units  
**Prerequisite:** Satisfactory score on the mathematics placement test or MATH 49.  
5 hours lecture, 1 hour laboratory.  
Introduction to differential calculus, including limits, derivatives and their applications to curve-sketching, families of functions, and optimization.

**MATH 1B**  CALCULUS  5 Units  
**Prerequisite:** MATH 1A.  
5 hours lecture, 1 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.  
5 hours lecture, 1 hour laboratory.  
Introduction to functions of more than one variable, including vectors, partial differentiation, the gradient, contour diagrams and optimization. Additional topics include infinite series, convergence, Taylor and Fourier series. [CAN MATH 20 = MATH 1B+1C, CAN MATH 21, CAN MATH SEQ B = MATH 1A+1B+1C, CAN MATH SEQ C = MATH 1A+1B+1C+1D, CAN MATH 22 = MATH 1C+1D]  

**MATH 1D**  CALCULUS  5 Units  
**Prerequisite:** MATH 1C.  
5 hours lecture, 1 hour laboratory.  
Introduction to integration of functions of more than one variable, including double, triple, flux and line integrals. Additional topics include polar, cylindrical and spherical coordinates, parameterization, vector fields, path-independence, divergence and curl. [CAN MATH 22 = MATH 1C+1D, CAN MATH 23, CAN MATH SEQ C = MATH 1A+1B+1C+1D]  

**MATH 2A**  DIFFERENTIAL EQUATIONS  5 Units  
**Prerequisite:** MATH 1C.  
**Advisory:** Eligibility for ENGL 1A or ESL 26.  
5 hours lecture, 1 hour laboratory.  
Differential equations and selected topics of mathematical analysis. [CAN MATH 24]  

**MATH 2B**  LINEAR ALGEBRA  5 Units  
**Prerequisite:** MATH 1C.  
5 hours lecture, 1 hour laboratory.  
A first course in Linear Algebra, including systems of linear equations, matrices, linear transformations, determinants, abstract vector spaces, eigenvalues and eigenvectors, inner product spaces and orthogonality, and selected applications of these topics. [CAN MATH 26]  

**MATH 10**  ELEMENTARY STATISTICS  5 Units  
**Prerequisite:** Satisfactory score on the mathematics placement test or MATH 104 or 105.  
5 hours lecture, 1 hour laboratory.  
An introduction to modern methods of descriptive statistics, including collection and presentation of data; measures of central tendency and dispersion; probability; sampling distributions; hypothesis testing and statistical inference; linear regression and correlation; use of microcomputers for statistical calculations. Illustrations taken from the fields of business, economics, medicine, engineering, education, psychology, and from culturally diverse situations. [CAN STAT 2]  

---

**MATH 11**  FINITE MATHEMATICS  5 Units  
**Prerequisite:** Satisfactory score on the mathematics placement test or MATH 104 or 105.  
5 hours lecture, 1 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]  

**MATH 12**  CALCULUS FOR BUSINESS & ECONOMICS  5 Units  
**Prerequisite:** MATH 11.  
5 hours lecture, 1 hour laboratory.  
Elementary ideas of differential and integral calculus. Differentiation of multivariate functions with their applications. Applications to business and economics. [CAN MATH 34]  

**MATH 22**  DISCRETE MATHEMATICS  5 Units  
**Prerequisite:** MATH 49.  
**Advisory:** Not open to students with credit in CIS 18.  
5 hours lecture, 1 hour laboratory.  
Discrete mathematics: set theory, logic, Boolean algebra, methods of proof, mathematical induction, number theory, discrete probability, combinatorics, functions, relations, recursion, algorithm efficiencies, graphs, trees. [CAN CSCI 26 = CIS 18 OR MATH 22]  

---

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
MATH 49  PRECALCULUS  5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 51. 5 hours lecture, 1 hour laboratory. An intensive study of linear, quadratic, polynomial, rational, logarithmic, exponential, and other functions and their related applications. Additional topics include functional notation, transformation of functions, families of functions, and inverse functions. [CAN MATH 10]

MATH 51  TRIGONOMETRY  5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 105. Advisory: MATH 102 recommended. 5 hours lecture, 1 hour laboratory. The theory of trigonometric functions and the applications of trigonometry. Topics include: radian measure and circular functions, graphs, identities, inverse trigonometric functions, trigonometric equations, vectors, and complex numbers. [CAN MATH 8]

MATH 100  OPEN COMPUTER LABORATORY  .5 Unit
MATH 100X  1 Unit
MATH 100Y  2 Units
Non-degree applicable credit course. Advisory: Pass/No Pass. Any combination of MATH 100–100Y may be taken a maximum of 6 times for credit. 1.5 hours laboratory for each .5 unit of credit. Individual study and/or guidance provided for students who desire or require additional assistance in any of the mathematics courses.

MATH 102  ELEMENTARY PLANE GEOMETRY  5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 220. 5 hours lecture, 1 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 220. 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. 5 hours lecture, 1 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. 5 hours lecture, 1 hour laboratory. Linear systems of three equations in three unknowns, rational 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 220. 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. 5 hours lecture, 1 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: Completion of, or concurrent enrollment in MATH 1A. 1 hour lecture, 1 hour laboratory. An introduction to the use of the Mathematica computer program as it applies to mathematics courses offered at Foothill College, including numerical calculations, algebraic manipulations, graphing, solving equations and systems of equations, differentiation and integration.

MATH 200  PREALGEBRA  5 Units
Non-degree applicable basic skills course. Prerequisite: Satisfactory score on the mathematics placement test or MATH 250 or 250L. 5 hours lecture, 1 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 220  ELEMENTARY ALGEBRA  5 Units
Formerly: MATH 101
Non-degree applicable basic skills course. Prerequisite: Satisfactory score on the mathematics placement test, MATH 200, 230, 230J or 234. Advisory: Not open to students with credit in MATH 101. Linear equations, linear inequalities, graphs, linear systems, operations on quadratics, factoring and proportional reasoning.

MATH 230  PREPARING FOR ALGEBRA  5 Units
Advisory: Pass/No Pass. Not open to students with credit in MATH 200. Corequisite: Concurrent enrollment in MATH 231. May be taken 3 times for credit. 5 hours lecture. Addition, subtraction, multiplication and division of whole numbers, fractions, decimals and signed numbers. Introduction to algebraic concepts including solving first-degree equations and evaluating and simplifying expressions. Development and applications of ratios, proportions, percents, geometric concepts and basic algebra.

MATH 230J  PREPARING FOR ALGEBRA  3 Units
Non-degree applicable basic skills course. Prerequisite: Completion of 7 or more modules from MATH 230. 3 hours lecture. Development and applications of percents and geometric concepts. Review of addition, subtraction, multiplication and division of whole numbers, fractions, decimals and signed numbers. Review of algebraic concepts including solving first-degree equations and evaluating and simplifying expressions, and applications of ratios and proportions.

MATH 231  MATH-SPECIFIC STUDY SKILLS  2 Units
Advisory: Pass/No Pass. Corequisite: Concurrent enrollment in MATH 230 or 235. May be taken 5 times for credit. 5 hours lecture. Individualized study and guidance to support students enrolled in MATH 230. Development of math specific study skills and problem solving techniques.

MATH 234  PREPARING FOR ALGEBRA: SUMMER EDITION  5 Units
Non-degree applicable basic skills course. Prerequisite: Students must have been enrolled in MATH 230 during the preceding Fall, Winter or Spring quarter and received credit in MATH 235. Advisory: Pass/No Pass. Not open to students with credit in MATH 200. May be taken 3 times for credit. 5 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. This course is a continuation of MATH 230.

MATH 235  ALTERNATE CREDIT ARITHMETIC & MATHEMATICAL DEVELOPMENT  5 Units
Non-degree applicable basic skills course. Corequisite: Enrollment in MATH 231. Course may be taken 4 times for credit. 5 hours lecture. Course is designed to allow students enrolled in Math 230 to receive credit for mastery of skills but not all of the outcomes of Math 230. Students are required to attend the Math 230 course, turn in all work, and participate in the other tasks of the class.
### METEOROLOGY

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MET 10</td>
<td>WEATHER PROCESSES</td>
<td>4 Units</td>
</tr>
<tr>
<td>MET 10L</td>
<td>METEOROLOGY LABORATORY</td>
<td>1 Unit</td>
</tr>
<tr>
<td>MET 24H</td>
<td>HONORS INSTITUTE SEMINAR IN METEOROLOGY</td>
<td>1 Unit</td>
</tr>
</tbody>
</table>

**MET 250**  ARITHMETIC  5 Units
Advisory: Not open to students with credit in MATH 250L.
5 hours lecture, 1 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.

**MET 250L**  BASIC COLLEGE MATHEMATICS  6 Units
Advisory: Not open to students with credit in MATH 250.
5 hours lecture, 3 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, decimals, and introduction to ratios and rates. This course is intended as a preparation for MATH 200.

**MET 26X**  SPECIAL PROJECTS IN METEOROLOGY  1 Unit
**MET 26Y**  2 Units
**MET 26Z**  3 Units
Advisory: High interest in the pursuit of meteorological knowledge.
Previous experience in meteorology recommended.
Any combination of MET 26X–26Z may be taken for a maximum of 6 units. 3 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.

### MUS 2A GREAT COMPOSERS & MUSIC MASTERPIECES OF WESTERN CIVILIZATION 4 Units
4 hours lecture, 2 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
4 hours lecture, 2 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
4 hours lecture, 2 hours laboratory.
Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers’ music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the mid-19th Century Romanticism through the present. Composers include Schumann, Chopin, Mendelssohn, Brahms, Berlioz, Liszt, Tchaikovsky, Mussorgsky, Strauss, Verdi, Wagner, Bizet, Debussy, Ravel, Ives, Cowell, Bartok, Berg, Webern, Stravinsky, Copland, Varese, Babbitt, Cage, Crumb, Ligeti, Penderecki, Reich, Glass and Adams.

### MUS 2D WORLD MUSIC 4 Units
4 hours lecture, 1 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.

---

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
MUS 3A  BEGINNING MUSIC THEORY, LITERATURE & COMPOSITION 5 Units
Advisory: MUS 12A strongly recommended.
4 hours lecture, 3 hours laboratory.
Introduction to the fundamentals of music and their application to composition and music literature. Notation, scales, intervals, triads, and their use in basic composition.

MUS 3B  INTERMEDIATE MUSIC THEORY, LITERATURE & COMPOSITION 5 Units
Advisory: MUS 3A proficiency or equivalent.
4 hours lecture, 3 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 3C  ADVANCED MUSIC THEORY, LITERATURE & COMPOSITION 5 Units
Advisory: MUS 3B proficiency or equivalent recommended.
4 hours lecture, 4 hours laboratory.
Continuation of late chromatic harmony and 20th Century compositional practice and theory. Application of composition and music literature. Impressionism, atonality, set theory, twelve-tone technique, graphic notation, and minimalism.

MUS 7D  CONTEMPORARY MUSICAL STYLES: THE BEATLES IN THE CULTURE OF POPULAR MUSIC 4 Units
4 hours lecture, 2 hours laboratory.
Contemporary Musical Styles is a research and listening based survey course that begins with the blues and continues with an introduction to contemporary jazz, popular songs, and rock music. It is a social history of rock and roll. It includes prominent performers, composers, compositions, and styles associated with the evolution and stature of current musical idioms.

MUS 7E  HISTORY OF THE BLUES 4 Units
4 hours lecture, 2 hours laboratory.
The History of the Blues is a research based course that examines the geographical regions, social influences, technological innovations, and musical styles within the blues form. It is about the dissemination and popularization of the blues, the basic song form of African American origin that is marked by flattened “blue” notes. The course will cover the development of the blues in the United States throughout the 20th century. Emphasis will be on the creation of the 12 bar blues, its evolution into jazz, rhythm and blues, rock and roll, and its impact on social issues.

MUS 8  MUSIC OF MULTICULTURAL AMERICA 4 Units
4 hours lecture, 2 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 8H  HONORS MUSIC OF MULTICULTURAL AMERICA 4 Units
Prerequisite: Honors Institute participant.
4 hours lecture, 2 hours laboratory.
A comparative and integrative study of the multicultural musical styles of the United States. Includes the musics of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans, from their historical roots to the present. Includes a wide variety of musical styles such as folk, spirituals, gospel, soul, blues, jazz, rap, cajun, zydeco, salsa, and tejano. Analysis of musical traditions from a technical and a cultural perspective; and sequential development of listening and descriptive skills through a variety of media including films, recordings, and computer-assisted instruction. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills.

MUS 10  MUSIC FUNDAMENTALS 4 Units
4 hours lecture, 1 hour laboratory.
Music Fundamentals is a beginning theory course where the basic elements of musicianship and harmony are explored through lecture, listening, and written assignments. Rudiments of music like pitch, rhythm, harmony, style, and form will be examined as rock and roll is analyzed through classical music theory.

MUS 10C  MUSIC FUNDAMENTALS THROUGH THE GUITAR 4 Units
Prerequisite: elementary guitar skills.
Advisory: MUS 14.
4 hours lecture, 2 hours laboratory.
Introduction to music theory using the guitar as an instrument instead of the piano. Introduction to notation, notes on the guitar, intervals, major and minor scales, chords, and basic principles of chord voicing as applied to the guitar. Not designed as a performance class but intended for music students whose primary instrument is the guitar.

MUS 12A  BEGINNING CLASS PIANO 2 Units
Advisory: Concurrent enrollment in MUS 10 and 12AL recommended.
May be taken 6 times for credit.
2 hours lecture, 1 hour laboratory.
Group instruction in piano for those with no previous training. Emphasis is on finger technique, note reading, elementary chording, and performance of simple piano literature. For music majors as well as the general student.

MUS 12AL  CLASS PIANO LABORATORY I 1 Unit
Advisory: Pass/No Pass.
May be taken 6 times for credit.
3 hours laboratory.
Supervised practice of piano repertoire and technical material assigned in MUS 12A.

MUS 12B  INTERMEDIATE CLASS PIANO 2 Units
Advisory: MUS 12A or equivalent skills; concurrent enrollment in MUS 12BL recommended.
May be taken 6 times for credit.
2 hours lecture, 1 hour laboratory.
Continuation of MUS 12A with increased emphasis on good tone production, independence of hands, development of eye-hand coordination, simple harmonization and transposition, and building repertoire.

MUS 12BL  CLASS PIANO LABORATORY II 1 Unit
Advisory: Pass/No Pass.
May be taken 6 times for credit.
3 hours laboratory.
Supervised practice of piano repertoire and technical material assigned in MUS 12B.

MUS 12C  ADVANCED CLASS PIANO 2 Units
Advisory: MUS 12B or equivalent skills; concurrent enrollment in MUS 12CL recommended.
May be taken 6 times for credit.
2 hours lecture, 1 hour laboratory.
Continuation of MUS 12B with greater emphasis on building a repertoire, varied styles of performance, and ensemble playing.
MUS 12CL  CLASS PIANO LABORATORY III  1 Unit
Advisory: Pass/No Pass.
May be taken 6 times for credit.
3 hours laboratory.
Supervised practice of piano repertoire and technical material assigned in MUS 12C.

MUS 12D  PIANO REPertoire  2 Units
Prerequisite: MUS 12C or equivalent.
Advisory: Concurrent enrollment in MUS 12DL is recommended.
May be taken 6 times for credit.
2 hours lecture, 1 hour laboratory.
The study and performance of selected piano literature from the 18th to 20th centuries.
Emphasis will be on interpretation, practice techniques, and expansion of repertoire.

MUS 12DL  PIANO REPertoire LABORATORY  1 Unit
Advisory: Pass/No Pass.
May be taken 6 times for credit.
3 hours laboratory.
Supervised practice of piano repertoire and technical material assigned in MUS 12D.

MUS 12T  PIANO REPertoire  1 Unit
Prerequisite: MUS 12C or equivalent.
Advisory: Concurrent enrollment in MUS 12DL is recommended.
May be taken 6 times for credit.
1 hour lecture, .5 hour laboratory.
The study and performance of selected piano literature from the 18th to 20th centuries.
Emphasis will be on interpretation, practice techniques, and expansion of repertoire.

MUS 12E  PIANO MASTER CLASS  2 Units
Advisory: MUS 12C or equivalent skills recommended.
May be taken 6 times for credit.
2 hours lecture, 1 hour laboratory.
The study and performance of selected piano literature from the 18th and 20th centuries.
Emphasis will be on performance, interpretation, practice techniques, and expansion of repertoire.

MUS 13A  CLASS VOICE I  1 Unit
Advisory: Concurrent enrollment in MUS 12A and 13AL is recommended.
2 hours lecture-laboratory, 1 hour laboratory.
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.

MUS 13AL  CLASS VOICE LABORATORY  1 Unit
Advisory: Pass/No Pass.
3 hours laboratory.
Supervised practice of vocal repertoire and technical material assigned in MUS 13A.

MUS 13B  CLASS VOICE II  1 Unit
Prerequisite: MUS 13A.
Corequisite: Concurrent enrollment in MUS 13BL.
2 hours lecture-laboratory, 1 hour laboratory.
Continuation of MUS 13A with additional emphasis on the development of the
voice as a solo instrument.

MUS 13BL  CLASS VOICE LABORATORY  1 Unit
Advisory: Pass/No Pass.
3 hours laboratory.
Supervised practice of vocal repertoire and technical material assigned in MUS 13B.

MUS 13C  CLASS VOICE III  1 Unit
Prerequisite: MUS 13A and 13B.
Corequisite: Concurrent enrollment in MUS 13CL.
2 hours lecture-laboratory, 1 hour laboratory.
Continuation of MUS 13A and 13B, with additional emphasis on musical phrasing,
artistic interpretation, and foreign language usage.

MUS 13CL  CLASS VOICE LABORATORY  1 Unit
Advisory: Pass/No Pass.
3 hours laboratory.
Supervised practice of vocal repertoire and technical material assigned in MUS 13C.

MUS 14A  BEGINNING CLASSICAL GUITAR  2 Units
Advisory: Concurrent enrollment in MUS 14AL is recommended.
May be taken 6 times for credit.
2 hours lecture, 1 hour laboratory.
A guitar fundamentals course that places emphasis on reading standard notation
in the first position. Techniques such as rest stroke, free stroke, and correct left
hand position are covered. Fundamental exercises and pieces will be played
by the student in class as the instructor provides accompaniment. Includes an
overview of the literature and the major performers of the classical guitar.
No public performances are required.

MUS 14AL  CLASSICAL GUITAR LABORATORY  1 Unit
Corequisite: Concurrent enrollment in MUS 14A.
May be taken 6 times for credit.
2 hours laboratory, 1 hour supervised practice.
Supervised practice in performance methods and techniques in the manner of
playing classical guitar.

MUS 14B  INTERMEDIATE CLASSICAL GUITAR  2 Units
Advisory: MUS 14A and concurrent enrollment in MUS 14BL recommended.
May be taken 6 times for credit.
2 hours lecture, 1 hour laboratory.
Continuation of MUS 14A. Covers more advanced techniques for the right and
left hands. Includes reading standard notation up to the 5th position. Increased
emphasis is placed on solo guitar literature in addition to ensemble literature. No
public performances are required.

MUS 14BL  CLASSICAL GUITAR LABORATORY  1 Unit
Corequisite: Concurrent enrollment in MUS 14B.
May be taken 6 times for credit.
2 hours laboratory, 1 hour supervised practice.
Supervised practice in performance methods and techniques in the manner of
playing classical guitar.

MUS 14C  ADVANCED CLASSICAL GUITAR  2 Units
Advisory: MUS 14B and concurrent enrollment in MUS 14CL recommended.
May be taken 6 times for credit.
2 hours lecture, 1 hour laboratory.
Continuation of MUS 14B. Covers more advanced techniques for the right and left
hands. Includes reading standard notation up to the 9th position. Includes more
complex solo ensemble literature. Additional class time is spent with lectures,
demonstrations and performances. No public performances are required.

MUS 14CL  CLASSICAL GUITAR LABORATORY  1 Unit
Corequisite: Concurrent enrollment in MUS 14C.
May be taken 6 times for credit.
2 hours laboratory, 1 hour supervised practice.
Supervised practice in performance methods and techniques in the manner of
playing classical guitar.

MUS 15A  BEGINNING FOLK GUITAR  2 Units
May be taken 6 times for credit.
2 hours lecture, 1 hour laboratory.
A performance based course in beginning guitar with a concentration on folk music.
Traditional and popular songs will be used to demonstrate the development of right
and left hand techniques. Standard music notation, tablature, and chord symbols will be
presented and students can choose instrumental or popular vocal selections to play.

MUS 15AL  FOLK GUITAR LABORATORY  1 Unit
Corequisite: Concurrent enrollment in MUS 15A.
May be taken 6 times for credit.
2 hours laboratory, 1 hour supervised practice.
Supervised practice in performance methods and techniques in the manner of
playing folk guitar.

MUS 15AS  BEGINNING FOLK GUITAR  1 Unit
May be taken 6 times for credit.
1 hour lecture-laboratory, .5 hour laboratory.
A study of beginning guitar techniques with a concentration on folk music. Traditional
and contemporary folk songs will be used to demonstrate the development of right
and left hand techniques and introduce the student to world music.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version
of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu

207
MUS 15B INTERMEDIATE FOLK GUITAR 2 Units
Prerequisite: MUS 15A or equivalent. May be taken 6 times for credit. 2 hours lecture, 1 hour laboratory. Development of traditional finger-picking style playing and pick techniques. Solo and ensemble performance on an intermediate level. Emphasis on reading traditional notation, chord symbols and tablature.

MUS 15BL FOLK GUITAR LABORATORY 1 Unit
Corequisite: Concurrent enrollment in MUS 15B. May be taken 6 times for credit. 2 hours laboratory, 1 hour supervised practice. Supervised practice in performance methods and techniques in the manner of playing folk guitar.

MUS 15C ADVANCED FOLK GUITAR 2 Units
Prerequisite: MUS 15A and 15B or equivalent. May be taken 6 times for credit. 2 hours lecture, 1 hour laboratory. Further instruction in the playing of folk guitar with an emphasis on fingerpicking, barre chords, and altered tunings. Sight reading in tablature, chord symbols, and standard notation. Instrumental Blues and blues scales.

MUS 15CL FOLK GUITAR LABORATORY 1 Unit
Corequisite: Concurrent enrollment in MUS 15C. May be taken 6 times for credit. 2 hours laboratory, 1 hour supervised practice. Supervised practice in performance methods and techniques in the manner of playing folk guitar.

MUS 27 SYMPHONY & CONCERTO 4 Units
Advisory: MUS 1 recommended. 4 hours lecture. Development of the symphony and concerto from the late 16th Century to the present. Emphasis on musical elements (compositional technique, performance practice and musical style) and on the forms' reflection of the social, religious, political and aesthetic values of each time period. Special focus on works currently being performed by local orchestras.

MUS 34H HONORS INSTITUTE SEMINAR IN MUSIC 1 Unit
Formerly: MUS 34
Prerequisite: Honors Institute participant. Advisory: Not open to students with credit in MUS 34. 1 hour lecture. A seminar in directed readings, discussions and projects in music.

MUS 35 SPECIAL PROJECTS IN MUSIC (HONORS) 2 Units
May be taken 6 times for credit. 6 hours laboratory. A laboratory course involving an approved student project in music such as theory, history and literature, and applied music. Performances or music productions for community musical events may be planned and executed in this class.

MUS 50A MUSIC BUSINESS 4 Units
4 hours lecture, 2 hours laboratory. Study of legal and business aspects of the music industry. Emphasis on publishing, licensing, and promotion. Copyright law, interaction between songwriters and music publishers, record companies, distributors and the rules that govern them. How music is licensed, service marks, trademarks and patents. The role of lawyers, agents, personal managers, producers and promoters. Licensing and copyright of intellectual properties in the growing multimedia industry and the Internet. Synchronization of music in film, video and television. Career development and how major/independent labels market and distribute media.

MUS 50B ENTERTAINMENT LAW & NEW MEDIA 4 Units
4 hours lecture, 2 hours laboratory. In-depth study and discussion of entertainment law as it applies to the emerging new media market and the music industry. Internet sales and distribution for new media, file sharing, licensing for the web, and digital copyright considerations. Promotional packages, Web site development, delivery systems, career promotion strategies, contracts and touring. In-depth analysis of contracts and regulations/potential of starting an independent media production company, record label, or online retail site. Sampling licenses/international copyright law and publishing.

MUS 50C CAREERS IN MUSIC 4 Units
Formerly: MUS 65
May be taken 3 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. An overview of the music industry and its career opportunities. Areas of study include studio management and engineering, music merchandising on the local and national levels, artist promotion, concert promotion, concert management, music contracting, graphic support in music recording, the role of the agent/personal manager, technical support in electronic music, technical support in traditional music, video and film production and editing, instrument maintenance and repair, and music retailing. Guest lectures from local industry professionals, field trips to studios, production facilities and retail facilities.

MUS 56 COMPOSING & ARRANGING WITH SIBELIUS 4 Units
May be taken 3 times for credit. 2 hours lecture, 2 hours lecture-laboratory, three hours laboratory. Beginning composing and arranging with Sibelius notation software. Integrate Sibelius with Pro Tools and Reason. Learn to write basic lead sheets with lyrics using either notation or guitar tab, and small group arrangements all the way to large orchestral scores in any musical style. This course can be taken concurrently with MUS 3, 10, 58 or 59 and is highly recommended for anyone considering a career in music, or the songwriter who wants to publish his/her music. Prior musical training is not required, and there are no stylistic restrictions.

MUS 58A SONGWRITER’S WORKSHOP I 4 Units
May be taken 6 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. Workshop course for songwriters that focuses on contemporary songwriters such as Dave Matthews, Kurt Cobain, Sarah McLachlan, Joni Mitchell, Stevie Wonder, John Mayer, James Taylor, etc. Each week a different songwriting technique is presented, along with student performances and songwriting assignments. In class listening and discussion of various songwriting styles along with guest speakers, songwriters and industry representatives.

MUS 58B SONGWRITER’S WORKSHOP II 4 Units
May be taken 6 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. Continuation of MUS 58A. Workshop course for songwriters that focuses on contemporary songwriters such as Dave Matthews, Kurt Cobain, Sarah McLachlan, Joni Mitchell, Stevie Wonder, John Mayer, James Taylor, etc. Each week a different songwriting technique is presented, along with student performances and songwriting assignments. In class listening and discussion of various songwriting styles along with guest speakers, songwriters and industry representatives.

MUS 58C SONGWRITER’S WORKSHOP III 4 Units
Prerequisite: MUS 58A, 58B or the equivalent. May be taken 6 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. Continuation of MUS 58A and 58B. Workshop course for songwriters that focuses on contemporary songwriters such as Dave Matthews, Kurt Cobain, Sarah McLachlan, Joni Mitchell, Stevie Wonder, John Mayer, James Taylor, etc. Each week a different songwriting technique is presented, along with student performances and songwriting assignments. In class listening and discussion of various songwriting styles along with guest speakers, songwriters and industry representatives.

MUS 59 APPLIED SONGWRITING 4 Units
May be taken 6 times for credit. 2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. Writing original songs for review by industry A&R reps and publishers. Active listening and constructive critiquing of original student compositions. This course prepares the student to produce a demo recording of original material for presentation at the West Coast Songwriter’s Conference at Foothill.

MUS 60A PRODUCING IN THE HOME STUDIO I 4 Units
May be taken 3 times for credit. 4 hours lecture, 2 hours laboratory. Design, set up and operation of an audio/video recording studio in a small environment. Space considerations, electrical requirements and acoustic treatment options. Computer requirements including processor speed, memory requirements, data storage devices and monitor selection/placement. MIDI keyboard types and compatibility, mixer selection and setup, cable selection and care, microphone design, and USB/firewire interface options. Software programs and compatibility issues. How to produce recordings from start to finish in a home studio.
MUS 60B PRECINCT IN THE HOME STUDIO II
4 Units
May be taken 3 times for credit.
4 hours lecture, 2 hours laboratory.
In-depth operation of an audio/video recording studio in a small environment.
Microphone selection and placement, creative sound treatments in non-traditional environments, and application of plug-in effects. Use of auxiliary tracks and busses. Mixing and mastering in various digital formats.

MUS 62 SOUND REINFORCEMENT
4 Units
May be taken 3 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.

MUS 64A JAZZ & SWING
4 Units
4 hours lecture, 2 hours laboratory.
History and analysis of jazz styles and trends from the development of Ragtime to 1969. An introduction to the instruments, performers, composers, compositions and recordings that defined jazz before the introduction of rock as the primary commercial music style in the US. Presentation of jazz and swing recordings, videos and print resources. Major artists include Louis Armstrong, Duke Ellington, Benny Goodman, Lionel Hampton, Count Basie, Charlie Parker, Dizzy Gillespie, Miles Davis, Sonny Rollins, Charles Mingus and John Coltrane. Style periods include Early (‘Dixieland’), Big Band, Jump, Swing, Bebop, Hard Bop, Cool, Modal, and Avant-Garde Jazz.

MUS 64B FUNK, FUSION & HIP-HOP
4 Units
4 hours lecture, 2 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/fused 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
4 hours lecture, 2 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/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, Chicho Valdez, and others. Styles include Danzon, Son, Mambo, Rhumba, Guaguancó, Guaracha, Son Montuno, Cha Cha, Guajira, Cumbia, Plena, Bomba, Merengue and others.

MUS 66A INTRODUCTION TO DIGITAL AUDIO: PRO TOOLS
4 Units
May be taken 3 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Introduction to creating music with computers, keyboards and audio samples (beats) using Pro Tools. Basic principles and use of MIDI sequencing/audio software. Songwriting, musical composition, and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music. Basic music production using Pro Tools. All styles are included, and prior musical training is not required.

MUS 66B INTRODUCTION TO DIGITAL AUDIO: REASON & PRO TOOLS
4 Units
May be taken 3 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Creating and editing digital audio with Pro Tools and Reason. Songwriting, musical composition, and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music. Introduction to using Reason both as a stand-alone digital audio workstation as a ReWire application within the Pro Tools production environment.

MUS 66C INTRODUCTION TO DIGITAL AUDIO: LIVE, REASON & PRO TOOLS
4 Units
May be taken 3 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Creating and editing digital audio with Pro Tools, Reason, and Ableton Live. Using Live as a stand-alone digital audio workstation and performance instrument. Pro Tools RTAS and Audio Suite plug-in effects and how they are used in the production of complete musical arrangements in digital music. Songwriting, musical composition, and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music.

MUS 68 CAREERS IN NEW MEDIA
1 Unit
Advisory: Not open to students with credit in ART 71, VART 53, GRDS 51, PHOT 67.
2 hours lecture-laboratory.
Exploring the field of New Media. Survey of transfer schools, new media art studios, company art departments, media agencies and job opportunities. Overview of careers and functions.

MUS 81A RECORDING ARTS II: AUDIO EDITING & PRODUCTION
4 Units
May be taken 3 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Introduction to fundamental concepts and techniques of mixing boards, amplifiers, microphones, signal processors and their application to both live and studio sound reinforcement. Basic introduction to computer based recording with Digidesign Pro Tools. Microphone placement, physics of sound as it relates to recording, sound reinforcement and studio setup techniques.

MUS 81B RECORDING ARTS II: SOUND DESIGN FOR FILM
4 Units
May be taken 4 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Creating and editing soundtracks and audio for digital video, music video and film. Recording live sound, and integrating sound effects from a digital library. Dialogue editing and re-recording (looping), and musical soundtrack creation. Synchronization of audio to video using timecode, aesthetic quality of sound and music as it relates to video content, and the production of video/audio projects using Final Cut Pro and Pro Tools.

MUS 81C RECORDING ARTS II: MIXING & MASTERING
4 Units
May be taken 3 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Recording, mixing and mastering multitrack recordings using Digidesign’s Pro Tools. Application of RTAS, TDM and Audio Suite DSP effects to the original multitrack recordings and stereo master. Creation of master soundfiles and basic Audio CD burning. Comparison and contrast of various styles of mixing for different mediums and formats. Production of MPEG (mp3) audio files as well as compression techniques and formats for internet distribution.

MUS 81D RECORDING ARTS II: PRO TOOLS & PLUG INS
4 Units
May be taken 3 times for credit.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Advanced editing and mixing techniques with Pro Tools. Creative applications of plug-ins used in contemporary music production and sound design. Signal processing, equalization, compression, Beat Detective, distortion, reverb, delay, vocal tuning and pitch correction, virtual instruments, synthesizer and sampler programming, advanced plug-in automation techniques.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 82A</td>
<td>RECORDING ARTS III: PRO TOOLS 101</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Formerly: MUS 82B</td>
<td></td>
</tr>
<tr>
<td></td>
<td>May be taken 4 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS 82B</td>
<td>RECORDING ARTS III: PRO TOOLS 110</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>DIGIDESIGN CERTIFICATION</td>
<td></td>
</tr>
<tr>
<td></td>
<td>May be taken 4 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Pro Tools concepts and techniques. Recording, editing and routing audio and MIDI data. Managing sessions and tracks, using virtual instruments, plug-ins, editing techniques, loop recording. Understanding time scales and automation. This is a required class for the Digidesign Pro Tools Operator Certification.</td>
<td></td>
</tr>
<tr>
<td>MUS 85A</td>
<td>MUSIC &amp; MEDIA: EDISON TO HENDRIX</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>4 hours lecture, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introductory study of the history and development of popular music from the invention 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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS 85B</td>
<td>MUSIC &amp; MEDIA: HENDRIX TO HIP-HOP</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>4 hours lecture, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUS 86</td>
<td>INTRODUCTION TO DIGITAL SOUND, VIDEO &amp; ANIMATION</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Advisory: Not open to students with credit in ART 88, DRAM 86, VART 86 or GID 86.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basic instruction using the computer for emerging media technologies; digital sound, video editing and animation. Emphasis on time-based media and creative problem solving.</td>
<td></td>
</tr>
<tr>
<td>MUS 90</td>
<td>MUSIC FOR MINORS TRAINING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Non-degree applicable credit course.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advisory: Instructor approval based on demonstrated ability to maintain rhythm and pitch, and some recent child-related leadership experience.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>May be taken 2 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 hours lecture-laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Training of volunteers (docents) to teach a comprehensive music program for elementary age classes.</td>
<td></td>
</tr>
<tr>
<td>MUS 150</td>
<td>MUSIC LABORATORY 1.5 Unit</td>
<td></td>
</tr>
<tr>
<td>MUS 150X</td>
<td>1 Unit</td>
<td></td>
</tr>
<tr>
<td>MUS 150Y</td>
<td>1.5 Units</td>
<td></td>
</tr>
<tr>
<td>MUS 150Z</td>
<td>2 Units</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Non-degree applicable credit course.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Any combination of MUS 150–150Z may be taken a maximum of 6 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.5 hours laboratory for each .5 unit of credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supervised activities in musical skills and materials related to music courses in which students are currently enrolled.</td>
<td></td>
</tr>
<tr>
<td>MUS 190</td>
<td>DIRECTED STUDY</td>
<td>.5</td>
</tr>
<tr>
<td>MUS 190X</td>
<td>1 Unit</td>
<td></td>
</tr>
<tr>
<td>MUS 190Y</td>
<td>1.5 Units</td>
<td></td>
</tr>
<tr>
<td>MUS 190Z</td>
<td>2 Units</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Non-degree applicable credit course.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advisory: Pass/No Pass.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Any combination of MUS 190–190Z may be taken for a maximum of 12 units.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.5 hours laboratory for each .5 unit of credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

### MUSIC PERFORMANCE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSP 19</td>
<td>CONCERT CHOIR</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: Enrollment subject to standardized audition administered by college staff to determine ability or technical proficiency of the student.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>May be taken 6 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUSP 20</td>
<td>REPERTORY CHORUS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: Enrollment subject to standardized audition demonstrating musical ability and technical proficiency at a level satisfactory to director.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>May be taken 6 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUSP 21</td>
<td>COLLEGE CHORALE</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>May be taken 6 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUSP 22</td>
<td>JAZZ SINGERS: INTRODUCTION TO VOCAL JAZZ ENSEMBLE</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: Enrollment subject to a standardized audition demonstrating musical ability and technical proficiency at a level satisfactory to director.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>May be taken 6 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUSP 23</td>
<td>FANFAIRS: ADVANCED VOCAL JAZZ ENSEMBLE</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: Enrollment subject to standardized audition demonstrating musical ability and technical proficiency at a level satisfactory to director.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>May be taken 6 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>MUSP 24</td>
<td>GOSPEL CHOIR</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 24X</td>
<td>4 Units</td>
<td></td>
</tr>
<tr>
<td>MUSP 24Y</td>
<td>6 Units</td>
<td></td>
</tr>
<tr>
<td>MUSP 24Z</td>
<td>8 Units</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Any combination of MUSP 24–24Z may be taken for a maximum of 48 units.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>
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 6 times for credit.
3 hours lecture-laboratory, 2 hours laboratory.
The intermediate study, rehearsal and performance of choral literature for women’s voices. Concerts are given both on and off campus. Attendance at all concerts is required.

MUSP 26  ADVANCED WOMEN’S CHORUS  2 Units
MUSP 26X  4 Units
MUSP 26Y  6 Units
MUSP 26Z  8 Units
Prerequisite: Enrollment subject to audition. Designed as an advanced performance course for singers interested in aspiring to the highest levels of musical performance. Prior singing experience or an instrumental background is required. Fundamental sight reading.
Any combination of MUSP 26–26Z may be taken for a maximum of 48 units.
3 hours lecture-laboratory, 2 hours laboratory for two units of credit. Study, rehearsal, and performance of choral repertoire specifically written for women’s voices. Includes musical styles from the Medieval Period to Contemporary Classical music. Concert performances both on and off campus. Attendance at all performances required.

MUSP 27  RENAISSANCE VOCAL ENSEMBLE  2 Units
MUSP 27X  4 Units
MUSP 27Y  6 Units
MUSP 27Z  8 Units
Prerequisite: Enrollment subject to a standard audition administered by the college staff which demonstrates the student’s potential for reaching a high level of performance proficiency. Any combination of MUSP 27–27Z may be taken for a maximum of 48 units.
3 hours lecture-laboratory, 2 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 rhythm and melodic accuracy, good blend, correct phrasing and clear articulation. Attendance at all scheduled performances is required.

MUSP 28  CHAMBER SINGERS  2 Units
Prerequisite: Enrollment subject to a standard audition administered by the college staff which demonstrates the student’s ability or technical proficiency is at a level necessary for group public performance. May be taken 6 times for credit.
3 hours lecture-laboratory, 2 hours laboratory.
Study and performance of sacred and secular choral repertoire from the 15th to 20th centuries. Unaccompanied works and music with instrumental accompaniment will be included. Emphasis on the cultivation of skills needed to sing music from a variety of choral styles and historical periods. Attendance at all scheduled performances is required.

MUSP 29  MADRIGAL SINGERS  2 Units
Prerequisite: Enrollment subject to a standard audition administered by the college staff which demonstrates that a student’s ability or technical proficiency is at a level necessary for group public performance. May be taken 6 times for credit.
3 hours lecture-laboratory, 2 hours laboratory.
Study and performance of secular music in the madrigal style from all periods. Emphasis will be on musical performance as theatre. Performances will be in costume with narration. Participation by players of early instruments is encouraged. Attendance at all scheduled performances is required.

MUSP 30  COLLEGE BAND  2 Units
MUSP 30X  4 Units
MUSP 30Y  6 Units
MUSP 30Z  8 Units
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. Any combination of MUSP 30–30Z may be taken for a maximum of 48 units.
3 hours lecture-laboratory, 2 hours laboratory.
Study and performance of a variety of choral styles and historical periods. Attendance at all scheduled performances is mandatory.

MUSP 31  CONCERT BAND  2 Units
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. May be taken 6 times for credit.
3 hours lecture-laboratory, 2 hours laboratory.
Study and performance of classic band repertoire. Emphasis will be on the literature of the Classic and Romantic eras of music history. The learning of correct playing techniques, particularly the stylistic demands of these two periods of ensemble performance, will be stressed. Attendance at all scheduled performances is mandatory.

MUSP 32  SYMPHONIC WIND ENSEMBLE  2 Units
MUSP 32X  4 Units
MUSP 32Y  6 Units
MUSP 32Z  8 Units
Prerequisite: Enrollment subject to audition administered by the college staff which demonstrates ability or technical performance by the student to a level of proficiency determined by a standardized testing procedure. Any combination of MUSP 32–32Z may be taken for a maximum of 48 units.
3 hours lecture-laboratory, 2 hours laboratory for two units of credit. Study and performance of 20th Century band repertoire. The learning of correct playing techniques, particularly the stylistic demands of 20th Century performance, will be stressed. Attendance at all scheduled performances is mandatory.

MUSP 33  EVENING JAZZ ENSEMBLE  2 Units
MUSP 33X  4 Units
MUSP 33Y  6 Units
MUSP 33Z  8 Units
Prerequisite: Enrollment subject to audition. Any combination of MUSP 33–33Z may be taken for a maximum of 48 units.
3 hours lecture-laboratory, 2 hours laboratory for two units of credit. Study and preparation of advanced level materials suitable for the large jazz ensemble. Selected published music of the 1980’s to current will be studied and performed. Attendance at all scheduled performances is mandatory.

MUSP 34  REPERTORY JAZZ ENSEMBLE  2 Units
MUSP 34X  4 Units
MUSP 34Y  6 Units
MUSP 34Z  8 Units
Prerequisite: MUSP 33 or equivalent.
Any combination of MUSP 34–34Z may be taken for a maximum of 48 units.
3 hours lecture-laboratory, 2 hours laboratory for two units of credit. Study and preparation of professional level materials suitable for the large jazz ensemble. Attendance at all scheduled performances is mandatory.

MUSP 35  STAGE BAND  2 Units
MUSP 35X  4 Units
MUSP 35Y  6 Units
MUSP 35Z  8 Units
Prerequisite: Enrollment subject to audition.
Any combination of MUSP 35–35Z may be taken for a maximum of 48 units.
3 hours lecture-laboratory, 2 hours laboratory for two units of credit.
Study and preparation of beginning-level materials suitable for the large jazz ensemble. This course is intended for the less experienced player in this idiom. The basic jazz techniques related to big band performance will be stressed. Attendance at all scheduled performances is mandatory.

MUSP 36  JAZZ LABORATORY BAND  2 Units
MUSP 36X  4 Units
MUSP 36Y  6 Units
MUSP 36Z  8 Units
Prerequisite: Enrollment subject to audition.
Advisory: MUS 10 or equivalent experience recommended.
Any combination of MUSP 36–36Z may be taken for a maximum of 48 units.
3 hours lecture-laboratory, 2 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
Attendance at all scheduled performances is required.

Reading, study and performance of Chamber and orchestral literature for strings.

3 hours lecture-laboratory, 2 hours laboratory for two units of credit.

Study and performance of Chamber and orchestral literature from the Renaissance to

3 hours lecture-laboratory, 2 hours laboratory for two units of credit.

Study, rehearsal and performance of the great masterworks for symphony orchestra

periods best suited for the college level instrumentalist. Attendance at all scheduled

performances is required.

MUSP 49 COLLEGE ORCHESTRA

2 Units

MUSP 38X 4 Units

MUSP 39Y 6 Units

MUSP 39Z 8 Units

Prerequisite: Enrollment subject to audition.

Any combination of MUSP 38–38Z may be taken for a maximum of 48 units.

Study and performance of Chamber orchestral literature from the Renaissance to

Attendance at all scheduled performances is required.

MUSP 36 CHAMBER ORCHESTRA

2 Units

MUSP 38X 4 Units

MUSP 39Y 6 Units

MUSP 39Z 8 Units

Prerequisite: Enrollment subject to audition.

Any combination of MUSP 38–38Z may be taken for a maximum of 48 units.

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 40X 4 Units

MUSP 40Y 6 Units

MUSP 40Z 8 Units

Prerequisite: Enrollment subject to audition administered by the college staff

which demonstrates ability or technical performance by the student to a level

of proficiency determined by a standardized testing procedure.

Any combination of MUSP 39–39Z may be taken for a maximum of 48 units.

3 hours lecture-laboratory, 2 hours laboratory for two units of credit.

Reading, study, and performance of the orchestral literature of various styles and

scores. The seminar is designed to prepare students to perform and present work both in individual performances and in voluntary collaborations.

MUSP 41A–F APPLIED MUSIC & MULTIMEDIA TRAINING

4 Units

2 hours lecture, 3 hours lecture-laboratory, 3 hours laboratory.

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 42 JAZZ COMBO

1 Unit

May be taken 6 times for credit.

2 hours lecture-laboratory, 1 hour laboratory.

Reading preparation and optional performance of jazz music for small combo. Attendance at all scheduled performances is required.

MUSP 43 CONTEMPORARY JAZZ ENSEMBLE

2 Units

Prerequisite: Enrollment subject to audition.

May be taken 6 times for credit.

3 hours lecture-laboratory, 2 hours rehearsal and performance.

Read and prepare advanced-level materials suitable for the large jazz

ensemble. Selected music written in progressive or modern styles from the

‘60s–‘90s will be studied and performed. Attendance at all scheduled performances is mandatory.

MUSP 44 RHYTHM & BLUES ENSEMBLE

1 Unit

Advisory: MUS 10 or equivalent recommended.

May be taken 6 times for credit.

3 hours laboratory.

A performance ensemble specializing in the repertoire of the blues, rock, and

popular music of the 1950s to the present day. Open to singers and instrumentalists

of intermediate-level or above. Minimum of one public performance per quarter.

MUSP 45 CHAMBER MUSIC

2 Units

May be taken 6 times for credit.

3 hours lecture-laboratory, 2 hours supervised practice.

Reading, preparation and performance of chamber music literature for various

instrumental combinations. Attendance at all performances is required.

MUSP 45V CHAMBER ENSEMBLE: STRINGS

1 Unit

Prerequisite: Enrollment subject to audition.

May be taken 6 times for credit.

3 hours laboratory, 1 hour supervised practice.

Reading, preparation, and performance of chamber music literature for various

instrumental combinations. Attendance at all scheduled performances is required.

MUSP 45W CHAMBER ENSEMBLE: WINDS

1 Unit

Prerequisite: Enrollment subject to audition.

May be taken 6 times for credit.

3 hours laboratory, 2 hours supervised practice.

Supervised participation in public performance in a music department ensemble.

Enrollment is for the duration of one particular performance or concert tour.

MUSP 49 MUSIC REHEARSAL & PERFORMANCE

2 Units

MUSP 49X 4 Units

MUSP 49Y 6 Units

MUSP 49Z 8 Units

Advisory: Pass/No Pass.

Any combination of MUSP 49–49Z may be taken for a maximum of 48 units.

3 hours lecture-laboratory, 2 hours laboratory for two units of credit.

.5 hour lecture, 1.5 hours lecture-laboratory, 5 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 55X PERFORMANCE PRACTICES IN MUSIC

1.5 Units

MUSP 55Y 2 Units

Prerequisite: Enrollment subject to audition.

Any combination of MUSP 95–95Y may be taken a maximum of 6 times for credit.

4 hours laboratory for each 2 units of credit.

A study of historical performance practices of vocal and instrumental music through group rehearsal and public performance of selected works. Attendance at all scheduled performances is required.

MUSP 95X PERFORMANCE PRACTICES IN MUSIC

2 Units

MUSP 95Y 5.5 Units

Prerequisite: Enrollment subject to audition.

Any combination of MUSP 95–95Z may be taken a maximum of 33 units.

4 hours laboratory for each 2 units of credit.

A laboratory course using techniques and procedures for developing quality musical

performances. Attendance at all scheduled performances is required.

MUSP 96 CONCERT PREPARATION & PRESENTATION

1 Unit

Prerequisite: Enrollment subject to audition.

May be taken a maximum of 6 times for credit.

4 hours laboratory.

A laboratory course using techniques and procedures for developing quality musical

performances. Attendance at all scheduled performances is required.

MUSP 191 CHORAL REPERTOIRE PRACTICUM

2 Units

MUSP 191X 3 Units

MUSP 191Y 4 Units

MUSP 191Z 5.5 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass.

Any combination of MUSP 191–191Z may be taken for a maximum of 33 units.

3 hours lecture-laboratory, 1.5 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 193–193Z may be taken for a maximum of 33 units.

3 hours lecture-laboratory, 1.5 hours laboratory for two units of credit.
Study, rehearsal, and performance of instrumental repertoire. Designed as an advanced performance course for players of string, wind, and percussion instruments wishing to explore the vast instrumental repertoire more fully, including music from renaissance to contemporary, and non-western music. Concert performances both on and off campus. Attendance at all performances required.

NANOTeCHNOLOGY

Physical Sciences, Mathematics & Engineering
(560) 949-7259
www.foothill.edu/psme/

NANO 51 INTRODUCTION TO NANOTECHNOLOGY 5 Units
Formerly: ENGR 76
Prerequisite: CHEM 30A or equivalent; PHYS 10 or equivalent; BIOL 10 or equivalent.
Advisory: Not open to students with credit in ENGR 76.

5 hours lecture.
Introduction to the underlying principles and applications of the emerging field of nanotechnology. Intended for a multidisciplinary audience with a variety of backgrounds. Introduces scientific principles and theory relevant at the nanoscale dimension. Discusses current and future nanotechnology applications in engineering and materials, physics, chemistry, biology, electronics and computing, and medicine.

NANO 52 INTRODUCTION TO MATERIALS SCIENCE 5 Units
5 hours lecture.
Introduction to the fundamental science and technology of modern materials, including semiconductors, electronics, MEMS, magnetic recording, carbon nanotubes, polymers and composite materials, and high performance metals and alloys. Topics include a review of the periodic table, atomic and electronic structure, chemical bonding and molecular geometry, crystal structure and crystallization, phase diagrams and phase transitions, and semiconductor. A review of modern materials and material structures includes colloids and particles, metals and alloys, ceramics and glasses, and polymers and thermoplastics. Particular emphasis placed on understanding the basic physics and chemistry of important material processes, such as the physics of solids and importance of defects and impurities in material structures. Depending on student interests, advanced topics can include surface chemistry, quantum structures, and fabrication of nanostructures such as carbon nanotubes and organic thin films.

NANO 53 MATERIALS CHARACTERIZATION 5 Units
Prerequisite: CHEM 30A or equivalent; PHYS 10 or equivalent; BIOL 10 or equivalent.
Advisory: NANO 52 or equivalent; students should have a basic knowledge of materials science, physics, and inorganic/organic chemistry.

5 hours lecture.
Focuses on techniques for micro and nano characterization of materials, including surface imaging and analysis techniques. Surveys the physics of instrumentation involved in characterizing materials, the typical approach to analyzing a wide variety of materials, including Micro Electro Mechanical Systems, carbon nanotubes, thin films, polymers, glasses, and other common nanomaterials. Materials analysis approaches to quality assurance and quality control, failure analysis, and problem solving. Hands-on exercises and experiential learning will include use of the Scanning Electron Microscope, Atomic Force Microscope-SPM, Auger Electron Spectroscopy, and analysis of X-Ray Photoelectron spectroscopy, Fourier Transform Infrared Spectroscopy, and Raman spectroscopy techniques.

NANO 54 SURFACES & THIN FILMS 5 Units
Prerequisite: CHEM 30A or equivalent; PHYS 10 or equivalent; BIOL 10 or equivalent.
Advisory: NANO 52 or equivalent; students should have a basic knowledge of materials science, physics, and inorganic/organic chemistry.

5 hours lecture.
Introduction to the physical chemistry and material properties of surface structures and states, and their importance in building devices at the nanoscale dimension, especially in thin films. The study of surfaces includes review of basic properties and roles of surface mechanisms, forces that lead to surface tension, physisorption and chemisorption, electronic and structural responses to surface termination, surface modification techniques, and modern methods for spectroscopic investigation in the context of industrial applications. The study of thin film fundamentals includes the theory, design, deposition, characterization, and applications in industry. Special topics may include Langmuir-Blodgett films, Self-Assembled Monolayers (SAMs), plasma surface modification, plasma polymerized organic films, and photovoltaics.

NANO 55 INTRODUCTION TO MICRO & NANO ELECTRONICS 5 Units
Prerequisite: ENGR 76 or NANO 51; NANO 52.
Advisory: ENGR 35, ENGR 37, PHYS 4D, MATH 2A or 10.

5 hours lecture.
Introduces and explains terminology, underlying principles, fundamental operational models, properties, and concepts associated with modern electronic circuits and their applications. Fundamentals of carrier generation, transport, recombination, and biasing in semiconductors. Provides insight into the internal workings of the “building-block” device structures such as the PN-junction diode, metal semiconductor contacts, bipolar junction transistors, MOS capacitors, and field effect devices, solar cells, and LEDs. First order device models that reflect physical principles and are useful for integrated circuit analysis and design. Introduction to quantum effects.

NANO 56 PRINCIPLES OF MEMS, NEMS & SENSORS 5 Units
Prerequisite: ENGR 76 or NANO 51 or equivalent.

5 hours lecture.
Introduction to the underlying principles and applications of micro and nano machined sensors and actuators, focusing on the use of fabrication technology for their realization. Basic mechanisms of transduction and the relative merits of different technologies. The basic principles for sensing displacement, force, pressure, acceleration, temperature, gases, and other physical parameters. Industry applications, design challenges, and manufacturing issues. Emerging micro and nano machining techniques and directions for future research.

NANO 57 INTRODUCTION TO MICRO & NANO FABRICATION TECHNIQUES 5 Units
Prerequisite: ENGR 76 or NANO 51; NANO 52 or equivalent.

5 hours lecture.
Introduction to the underlying principles, techniques, and applications of fabrication technology from the top down and bottom up perspective. For students interested in the physical bases and practical methods of micro and nanoscale fabrication technology or the impact of technology on device design. Topics: the fundamental principles and methods of semiconductor/IC fabrication processes; crystal growth, oxidation, doping, etching, deposition, current lithography techniques, molecular manufacturing, DNA templating, protein assembly, packaging, back-end processing, quality control and yield analysis.

NANO 58 MICRO & NANO FABRICATION TECHNIQUES LABORATORY 5 Units
Prerequisite: NANO 56 or NANO 57.

5 hours lecture.
This course involves hands on practical laboratory fabrication experience, process simulation using SUPREM or ATHENA, and testing of a simple fabricated device. Emphasis is on the practical aspects of fabrication, such as safety, silicon wafer cleaning, lithography, etching, oxidation, diffusion, ion implantation, deposition, and wafer testing. Process simulators (SUPREM or ATHENA) are used to illustrate concepts, provide insight to the lab experience, and compare actual results to expected results. Class size will be limited and divided into groups. In addition to class lectures, each group will meet once a week for a minimum of a 4-hour guided lab session. Each group will be guided by an instructor or teaching assistant. The laboratory guide will give a demonstration of the fabrication equipment and the process, and then individuals will be able to participate in processing under his or her supervision.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
NANO 59  NANOBIO TECHNOLOGY SCIENCES 5 Units
Prerequisite: ENGR79 or NANO 51; BTEC 52A.
5 hours lecture.
Examines the convergence of nanotechnology and biotechnology. Investigates biology as a small nanotechnology system, structural and functional principles in biomolecular design. Emphasis on self-assembly of organic and inorganic structures using proteins as molecular nanomachines and DNA templating. Explores the use of artificial genomes and synthetic proteins in novel cellular systems. Basic knowledge of design and use of biosensors and BioMEMS, microarray technology (GeneChip), nanopore DNA sequencing, and microfluidic devices. Special topics may include digital cells and insilico biology, biomaterials, and biomedical devices designed and engineered using micro and nanotechnology.

NANO 60  INTRODUCTION TO CLEAN TECHNOLOGY 5 Units
Prerequisite: CHEM 30A or equivalent; PHYS 10 or equivalent; BION 10 or equivalent.
5 hours lecture.
Introduction to the field of clean technology, known as cleantech, intended for a multidisciplinary audience with a variety of backgrounds and interests. Emphasizes technologies and applications in engineering and materials, physics, chemistry, and related fields in nanoscience especially related to environmental remediation, and new engineering approaches to fuel cells, motors, batteries, and insulation, among other aspects of energy conservation. Introduces principles and theory relevant to solar energy using silicon and other thin film and nanoscale approaches. Discusses current and future trends in global energy demand and production, emphasizing the urgent need for both increased capacity and zero emission technology.

NANO 61  INTRODUCTION TO MICRO & NANO FABRICATION TECHNIQUES 5 Units
Prerequisite: Satisfactory completion of the core curriculum in the nanotechnology certificate, to include at least three courses from NANO 53–60, and 51. 5 hours lecture.
Capstone course requiring research to be undertaken by students during their tenure in the Nanoscience program, or a properly documented experiential learning outcome. Research can be conducted through any college or university, but must include a course number and evaluation by properly credentialed faculty. A range of interdisciplinary projects will be accepted by contributing schools, including departments of Chemistry, Biochemistry, Biology, Biotechnology, Physics, Engineering, and Materials Science, enabling students to carry out experimental investigations in any applied area of nanotechnology. Work will be accompanied by a 15 to 25-page research document, formatted consistently with scholarly publications, including necessary citations. Internships should include a description of research goals and objectives, learning outcomes, and whenever possible, include entry into an electronic portfolio. Internships from NASA, SRI, and other universities are applicable for students to pursue.

OCEANOGRAPHY
Physical Sciences, Mathematics & Engineering (560) 949-7259
www.foothill.edu/psme/

OCEN 10  GENERAL OCEANOGRAPHY 4 Units
3 hours lecture, 1 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 34H  HONORS INSTITUTE SEMINAR IN OCEANOGRAPHY 1 Unit
Formerly: OCEN 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in OCEN 34.
1 hour lecture.
A seminar in directed readings, discussions and projects in oceanography. Specific topics to be determined by the instructor.

OCEN 36  SPECIAL PROJECTS IN OCEANOGRAPHY 1 Unit
OCEN 36X  2 Units
OCEN 36Y  3 Units
Advisory: High interest in the pursuit of oceanographical knowledge. Previous experience in oceanography recommended. Any combination of OCEN 36–36Y may be taken for a maximum of 6 units.
3 hour 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 (560) 949-7479
www.foothill.edu/fa/

P A 21  THEATRICAL REHEARSAL & PERFORMANCE 2 Units
P A 21X  4 Units
P A 21Y  6 Units
P A 21Z  8 Units
Advisory: Not open to students with credit in DRAM 49 or THTR 49.
Any combination of P A 21–21Z may be taken for a maximum of 48 units.
3 hours lecture-laboratory, 2 hours laboratory for two units of credit.
Supervised participation in scheduled theatrical productions, as cast or crew. Enrollment in each course is for the duration of the production.

P A 211  MUSIC REHEARSAL & PERFORMANCE 2 Units
P A 211X  4 Units
P A 211Y  6 Units
P A 211Z  8 Units
Advisory: Pass/No Pass.
Any combination of P A 21–21Z may be taken for a maximum of 48 units.
3 hours lecture-laboratory, 2 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 111–111Z may be taken for a maximum of 96 units.
8 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 121–121Z may be taken for a maximum of 96 units.
8 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
P T 53 PERSONAL FITNESS TRAINER INTERNSHIP 3 Units
May be taken 3 times for credit.
2 hours lecture, 3 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
2 hours lecture, 3 hours laboratory.
Techniques in conducting exercise assessment tests. Includes calculating and interpreting assessment test results and the design of exercise programs.

P T 55 THEORY & CONCEPTS OF EXERCISE PHYSIOLOGY 4 Units
4 hours lecture.
Basic concepts and principles of exercise science and how the human body responds to the demands of physical activity. Emphasis on anatomy, physiology, and biomechanics. Includes factors related to maintaining optimal body weight, nutrition, and increasing one’s flexibility.

P T 56 PRINCIPLES & ANALYSIS OF FLEXIBILITY 4 Units
P T 56X 3 Units
P T 56Y 1 Unit
P T 56Y 1 Unit
3 hours lecture, 3 hours laboratory for 4 units of credit.
Techniques and principles of stretching and flexibility. Includes anatomy and physiology of flexibility and the practical application of flexibility training in everyday life, fitness, and athletic competition.

PHARMACY TECHNOLOGY
Biological & Health Sciences (650) 949-7249
www.foothill.edu/bio/programs/pharmtec/

PHT 50 ORIENTATION TO PHARMACY TECHNOLOGY 3 Units
Prerequisite: Admission to Pharmacy Technology Program.
3 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
Prerequisite: Admission to the Pharmacy Technology Program.
4 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
Prerequisite: Admission to Pharmacy Technology Program.
2 hours lecture, 4 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
Prerequisite: PHT 52A.
3 hours lecture, 5 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.
PH 53  AMBULATORY PHARMACY PRACTICE  4 Units
Prerequisite: Admission to the Pharmacy Technology Program.
3 hours lecture, 3 hours laboratory, 1.5 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.

PH 54A  DOSAGE CALCULATIONS A  3 Units
Prerequisite: Admission to Pharmacy Technology Program.
3 hours lecture.
An introduction to the use of pharmaceutical measuring systems with emphasis
on the metric system and inter-system conversions.

PH 54B  DOSAGE CALCULATIONS B  3 Units
Prerequisite: PH 54A.
3 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.

PH 55A  PHARMACOLOGY A  6 Units
Prerequisite: PH 50.
6 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.

PH 55B  PHARMACOLOGY B  6 Units
Prerequisite: PH 55A.
6 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.

PH 56A  DISPENSING & COMPOUNDING A  4 Units
Prerequisite: PH 50.
2 hours lecture, 6 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.

PH 56B  DISPENSING & COMPOUNDING B  3 Units
Prerequisite: PH 56A.
2 hours lecture, 3 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.

PH 60A  RETAIL CLINICAL  1.5 Units
Prerequisite: Admission to the Pharmacy Technology Program.
8 hours clinical experience, 1 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.

PH 60B  RETAIL CLINICAL  1.5 Units
Prerequisite: PH 60A.
8 hours clinical experience, 1 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.

PH 61  HOME HEALTHCARE SUPPLIES  3 Units
Prerequisite: PH 50.
2 hours lecture, 3 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.

PH 62A  HOSPITAL CLINICAL  1.5 Units
Prerequisite: Admission to Pharmacy Technology Program.
8 hours clinical experience, 1 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.

PH 62B  HOSPITAL CLINICAL  1.5 Units
Prerequisite: PH 62A.
8 hours clinical experience, 1 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.

PH 200L  PHARMACY TECHNICIANS AS A CAREER  1 Unit
Non-degree applicable credit course.
1.5 hours lecture-laboratory.
Introduction to the pharmaceutical sciences and the functions of a pharmacy technician
in health care. Role of the pharmacy technician, areas of specialization in the field,
technical standards, state registration requirements and employment opportunities.

PHILOSOPHY

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

PHIL 1  CRITICAL THINKING & WRITING  5 Units
Prerequisite: ENGL 1A.
5 hours lecture.
Develops understanding of informal logic and practical reasoning skills necessary
for academic success, including tools needed to analyze information from a variety
of sources such as academic essays, philosophic literature, news media and
advertising. Focus on skills of argumentation including, but not limited to, elements
of an argument, deductive and inductive forms of argumentation, the evaluation of
arguments and the recognition of a variety of fallacies. Skills developed through
a series of written assignments of increasing scope and difficulty culminating in
a sophisticated argumentative essay.

PHIL 2  INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY  4 Units
4 hours lecture.
Social and political philosophies of classical, modern and contemporary thinkers.

PHIL 4  INTRODUCTION TO PHILOSOPHY  4 Units
4 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
5 hours lecture.
Use of logic as a tool for analyzing arguments. Development of formal proof
techniques including quantification theory.

PHIL 8  ETHICS  5 Units
5 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 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. Consider's 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 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 hours lecture.
Examination of Western philosophy in the early modern period with an emphasis on major philosophers such as Descartes, Hume and Kant.

PHIL 20C CONTEMPORARY PHILOSOPHY: 19TH & 20TH CENTURY THOUGHT
Advisory: Eligibility for ENGL 1A or ESL 26.
4 hours lecture
Survey of the history of western philosophy during the 19th and 20th centuries. Examination of major philosophical developments, theories and movements. Special attention to the influence of 19th and 20th century thought on our contemporary world view.

PHIL 22 INTRODUCTION TO WORLD RELIGIONS: THE SEARCH FOR SPIRITUAL MEANING
4 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 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 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 34H HONORS INSTITUTE SEMINAR IN PHILOSOPHY
1 Unit
Formerly: PHIL 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in PHIL 34.
1 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 6 times for credit.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

PHIL 36 SPECIAL PROJECTS IN PHILOSOPHY
1 Unit
PHIL 36X 2 Units
PHIL 36Y 3 Units
PHIL 36Z 4 Units
Any combination of PHIL 36–36Z may be taken for a maximum of 6 units.
1 hour lecture for each unit of credit.
Advanced readings research, and/or project in philosophy. Specific topics determined in consultation with instructor.

PHIL 50 INTRODUCTION TO CRITICAL THINKING
4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
4 hours lecture.
Develops understanding of informal logic and practical reasoning skills necessary for academic success, including tools needed to analyze information from a variety of sources such as academic essays, philosophic literature, news media and advertising. Focus on skills of argumentation including, but not limited to, elements of an argument, deductive and inductive forms of argumentation, the evaluation of arguments and the recognition of a variety of fallacies. Skills developed through written analysis of a variety of sources including but not limited to academic articles, news media, televised debates and advertisements.

PHOTOGRAPHY
Fine Arts & Communication (650) 949-7145 www.foothill.edu/fa/photo

PHOT 1 BLACK & WHITE PHOTOGRAPHY I
4 Units
2 hours lecture, 3 hours lecture-laboratory, 2 hours laboratory.
Fundamentals of black and white still photography. Historical development of the technology and role of photography in contemporary visual expressions; 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 1 LX GENERAL PHOTO PRODUCTION LABORATORY
1 Unit
Corequisite: Concurrent enrollment in PHOT 1.
3 hours laboratory.
Supervised use of photographic darkroom equipment and procedures for the beginning photography student. Hours to be arranged.

PHOT 2 BLACK & WHITE PHOTOGRAPHY II
4 Units
Prerequisite: PHOT 1 or equivalent.
May be taken 2 times for credit.
2 hours lecture, 3 hours lecture-laboratory, 3 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 2 LX GENERAL PHOTO PRODUCTION LABORATORY II
1 Unit
Corequisite: PHOT 2.
3 hours laboratory.
Supervised use of photographic darkroom equipment and procedures for the intermediate photography student. Hours to be arranged.

PHOT 5 INTRODUCTION TO PHOTOGRAPHY
4 Units
2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory.
Introduction to film and digital photography including use of light, expressive color and composition. Instruction in basic camera operations and printing options. Survey of photography's historical and contemporary role in our society and examination of contributions by photographers of diverse backgrounds.

PHOT 8 PHOTOGRAPHY OF MULTICULTURAL AMERICA
4 Units
4 hours lecture, 2 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
PHOT 8H  HONORS PHOTOGRAPHY OF MULTICULTURAL AMERICA  4 Units
Prerequisite: Honors Institute participant.
4 hours lecture, 2 hours laboratory.
Examination of photography's role in shaping ideas about race, class, gender, sexuality and national identity in America. Critical analysis of images from a wide range of genres including: commercial photography, portraiture, social documentary, photojournalism, ethnographic and scientific photography, erotica, and fine-art photography are discussed within their historical and social context. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills.

PHOT 10H  HONORS HISTORY OF PHOTOGRAPHY  4 Units
Prerequisite: Honors Institute participant.
Advisory: PHOT 1 or equivalent.
3 hours lecture, 3 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 10  HISTORY OF PHOTOGRAPHY  4 Units
Advisory: PHOT 1 or equivalent.
3 hours lecture, 3 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
Advisory: Not open to students with credit in PHOT 59.
3 hours lecture, 3 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  4 Units
Advisory: PHOT 2.
May be taken 3 times for credit.
2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory.
Exploration of experimental approaches to creative photography, using silver and nonsilver processes. Introduction to digital manipulation of images.

PHOT 34H  HONORS INSTITUTE SEMINAR IN PHOTOGRAPHY  1 Unit
Formerly: PHOT 34
Prerequisite: Honors Institute participant.
May be taken 2 times for credit.
1 hour lecture.
A seminar in directed readings, discussions and projects in photography. Specific topics to be determined by the instructor.

PHOT 50  BLACK & WHITE PHOTOGRAPHY III  4 Units
Prerequisite: PHOT 2.
May be taken 3 times for credit.
2 hours lecture, 3 hours lecture-laboratory, 1 hour laboratory.
Exploration of photographic seeing through the use of advanced processing and printing techniques; introduction to the Zone System and film calibration; creating special effects; high contrast and infrared films; integration of aesthetics and technique, emphasis on development of a personal style.

PHOT 51  ZONE SYSTEM PHOTOGRAPHY  4 Units
Prerequisite: PHOT 2.
May be taken 3 times for credit.
2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory.
An exploration of the Zone System through use of special processing and fine printing techniques. 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  4 Units
Prerequisite: PHOT 2.
May be taken 3 times for credit.
2 hours lecture, 3 hours lecture-laboratory, 1.5 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.

PHOT 55  SPECIAL PROJECTS IN PHOTOGRAPHY  2 Units
Prerequisite: PHOT 2 or 65B.
May be taken 6 times for credit.
1 hour lecture, 3 hours laboratory.
Specific topics in creative, technical or applied photography must be determined in consultation with instructor. A limited area is explored in depth.

PHOT 57A  PHOTOGRAPHIC PORTFOLIO DEVELOPMENT  4 Units
Prerequisite: PHOT 1, 2, 50 or 5, 65A, 65B or instructor's permission.
Advisory: PHOT 10 or 11.
May be taken 3 times for credit.
2 hours lecture, 3 hours lecture-laboratory, 1.5 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  4 Units
Prerequisite: PHOT 1, 2, 50 or 5, 65A, 65B and 57A, or instructor's permission.
Advisory: PHOT 10 or 11.
May be taken 3 times for credit.
2 hours lecture, 3 hours lecture-laboratory, 1.5 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  4 Units
Advisory: PHOT 1 or equivalent experience.
May be taken 2 times for credit.
2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory.
Basic instruction in use of the new photographic technologies of computer-enhanced imagery, digital image-making and digital printing. Overview of the contemporary use of images and computers in commerce, media and fine art expression. Web pages, virtual reality and the latest in digital photo equipment are explored.

PHOT 63  PHOTOJOURNALISM  4 Units
Prerequisite: PHOT 2.
May be taken 4 times for credit.
2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory.
Instruction in basic skills needed for effective online and print photography for use in newspapers, magazines, web journals and blogs 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, image content and captioning. Introduction to digital capture, preparation of files and transmittal of photographs, and video and sound recording techniques.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite/Advisory</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHOT 65A</td>
<td>Digital Photography I</td>
<td>4</td>
<td>Advisory: PHOT 1, 5 or equivalent. May be taken 3 times for credit. 2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory. Introduction to the tools for expressive communication for the photographer using Adobe Photoshop including scanning, image enhancement, printing and web publishing. Development of skills for a variety of outputs for both fine art and commercial applications. The student will explore the &quot;digital darkroom&quot; using both traditional photographic materials and digital input. Digital Camera not required.</td>
</tr>
<tr>
<td>PHOT 65B</td>
<td>Digital Photography II</td>
<td>4</td>
<td>Advisory: PHOT 65A or equivalent experience. May be taken 3 times for credit. 2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory. Continuing instruction in the tools for expressive communication for the photographer using Adobe Photoshop including scanning, image enhancement, printing and web publishing. Development of skills for a variety of outputs for both fine art and commercial applications. The student will explore the &quot;digital darkroom&quot; using both traditional photographic materials and digital input. Digital Camera not required.</td>
</tr>
<tr>
<td>PHOT 65C</td>
<td>Digital Photography III</td>
<td>4</td>
<td>Advisory: PHOT 65B or equivalent. May be taken 3 times for credit. 2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory. Continuing instruction in the tools for expressive communication for the photographer using Adobe Photoshop including scanning, image enhancement, printing and web publishing. Development of skills for a variety of outputs for both fine art and commercial applications. The student will explore the &quot;digital darkroom&quot; using both traditional photographic materials and digital input. Digital Camera not required.</td>
</tr>
<tr>
<td>PHOT 67</td>
<td>Careers in the Visual Arts</td>
<td>2</td>
<td>Advisory: Not open to students with credit in ART 71, FTV 53, GRDS 51, MUS 68. 2 hours lecture. Exploring the field of visual arts including fine arts, design, graphic design, photography, video arts, new media, and theatre arts. Survey of transfer schools, art studios, company art departments, advertising agencies and job opportunities for creative services professionals</td>
</tr>
<tr>
<td>PHOT 68</td>
<td>Special Topics in Photography</td>
<td>1</td>
<td>Advisory: PHOT 1 or 65A. May be taken 6 times for credit. 1 hour lecture. Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s).</td>
</tr>
<tr>
<td>PHOT 70</td>
<td>Introduction to Color Photography</td>
<td>4</td>
<td>Prerequisite: PHOT 2. May be taken 3 times for credit. 2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory. Introduction to color transparencies, types of transparency films; 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.</td>
</tr>
<tr>
<td>PHOT 71</td>
<td>The Photographic Book</td>
<td>4</td>
<td>Prerequisite: PHOT 1, 5, 65A, or equivalent experience. May be taken 3 times for credit. 2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory. Application of the technology of electronic (digital) photography to desktop publishing. Instruction in digital image processing and use of the electronic darkroom. Introduction to principles and applications of computer graphic design, typography and illustration.</td>
</tr>
<tr>
<td>PHOT 72</td>
<td>Digital Camera Technique</td>
<td>4</td>
<td>Prerequisite: PHOT 5, 65A or equivalent experience. 2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory. Exploration of the digital camera in multiple formats. Understanding the current tools and develop skill in imaging in the digital realm. Issues unique to the digital process including workflow, archiving, image resolution as well as basic photographic concerns such as composition and visual communication will be explored.</td>
</tr>
<tr>
<td>PHOT 74</td>
<td>Studio Photography Techniques</td>
<td>4</td>
<td>Prerequisite: PHOT 1 and 2. May be taken 3 times for credit. 2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory. Introduction and overview to large format (view camera), digital medium format cameras, and studio lighting; exploration of photographic practices in a studio environment; emphasis on developing effective skills and techniques necessary to begin a career in studio photography.</td>
</tr>
<tr>
<td>PHOT 75</td>
<td>Introduction to Computer Graphics</td>
<td>4</td>
<td>Advisory: Familiarity with computer operating systems; ART 4A or GRDS 60; ART 5A; PHOT 1 or 5. Not open to students with credit in ART 56 or GRDS 56. 6 hours lecture-laboratory, 3 hours laboratory. Basic instruction using the computer for painting, drawing, image processing, photo composites and typography. Emphasis on image making and creative problem solving.</td>
</tr>
<tr>
<td>PHOT 78</td>
<td>Field Study in Photography</td>
<td>1</td>
<td>Advisory: PHOT 1 or 65A recommended. May be taken 6 times for credit. 1 hour lecture. Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s) in the field.</td>
</tr>
<tr>
<td>PHOT 83</td>
<td>Service Learning Projects</td>
<td>4</td>
<td>Advisory: Completion of entry-level photography courses. May be taken 3 times for credit. 6 hours lecture-laboratory, 3 hours laboratory. Fulfillment of work-related assignments for on-campus and off-campus not-for-profit organizations. Faculty coordinator helps the student apply skills learned in graphic arts courses to community-based projects. Disciplines include graphic design, photography and studio art.</td>
</tr>
<tr>
<td>PHOT 125</td>
<td>Photographic Laboratory Management</td>
<td>3</td>
<td>Advisory: Completion of beginning photography class recommended. A self-paced class introducing the darkroom lab technician or home darkroom user to the techniques of proper photographic lab management. Topics include black and white chemistry, color chemistry, enlarger and camera types, studio equipment and design, simple repairs, darkroom safety, chemistry handling and documentation.</td>
</tr>
<tr>
<td>PHOT 130</td>
<td>Presenting, Preserving &amp; Restoring Photographs</td>
<td>4</td>
<td>Advisory: PHOT 1 or 65A. May be taken 6 times for credit. 2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory. This class will introduce you to skills that are useful to the artist, the family archivist and the independent photography business operator. Topics will include: Archiving and protecting family photographs using both traditional and digital technique; Documenting and storage of personal artwork for preservation and exhibition as well as preparation of professional slides for application to schools or exhibitions; Development of skills and techniques useful in a photographic business like framing and matting using both double mats and multiple mats in a variety of materials. Creation of artwork using handcoloring and innovative matting and framing techniques.</td>
</tr>
<tr>
<td>PHOT 150</td>
<td>Photography Production Laboratory</td>
<td>.5</td>
<td>Corequisite: Concurrent enrollment in a photography course requiring laboratory access. May be taken for a maximum of 18 units. 2 hours laboratory for each .5 unit of credit. Supervised use of photographic studio and darkroom equipment for projects assigned in still photography courses, including basic, intermediate, advanced, color, and special project courses. Hours to be arranged within scheduled availability of photography department open facilities.</td>
</tr>
</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
PHOT 190 PHOTOGRAPHIC PRACTICES .5 Unit
PHOT 190X 1 Unit
PHOT 190Y 2 Units
PHOT 190Z 3 Units
Corequisite: Concurrent enrollment in a photography course requiring
laboratory access or by instructor referral.
May be taken for a maximum of 18 units.
2 hours laboratory for each .5 unit of credit.
Supervised use of photographic studio and darkroom equipment for projects
assigned in still photography courses, including basic, intermediate, advanced,
color, digital, and special project courses. Hours to be arranged within scheduled
availability of photography department open facilities.

PHOT 190 DIRECTED STUDY .5 Unit
PHOT 190X 1 Unit
PHOT 190Y 2 Units
PHOT 190Z 3 Units
Prerequisite: PHOT 1 or 5 or equivalent.
Advisory: Pass/No Pass.
May be taken for a maximum of 18 units.
Any combination of PHOT 190–190Z may be taken for a maximum of 18 units.
Directed study for students who desire or require additional help in attaining
comprehension and competency in learning skills in a photographic area.

PHYSICAL EDUCATION

PHED 1 INTRODUCTION TO PHYSICAL EDUCATION AS A PROFESSION 4 Units
Formerly: H P 1
Advisory: Not open to students with credit in H P 1.
4 hours lecture.
Introduction to the general nature of the physical education profession and its
related fields of health, recreation and athletics.

PHED 2 SPORT IN SOCIETY 4 Units
Formerly: H P 1B
Advisory: Not open to students with credit in H P 1B.
4 hours lecture.
This course looks at current and past sports related cultural and historical issues
and practices to study the role of sport in society.

PHED 3 THEORIES & TECHNIQUES OF COACHING SPORTS 4 Units
Formerly: H P 37
Advisory: Not open to students with credit in H P 37.
4 hours lecture.
Instruction in the theories and techniques of coaching sport and its variables which
contribute to team performance and success. This course addresses developing a coaching
philosophy, sport psychology, sport pedagogy, sport physiology and sport management.

PHED 4 CONCEPTS OF PHYSICAL FITNESS & WELLNESS 4 Units
Formerly: H P 48
Advisory: Not open to students with credit in H P 48.
4 hours lecture.
Study of physical fitness, training principles, appropriate exercise and health
practices with application to lifelong health and exercise habits.

PHED 5 FUNDAMENTALS OF HATHA YOGA 4 Units
Formerly: H P 44H
Advisory: Not open to students with credit in H P 44H.
4 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.

PHED 6 AEROBIC INSTRUCTOR TRAINING CERTIFICATION 2 Units
Formerly: H P 38
Advisory: Not open to students with credit in H P 38.
4 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.

PHED 7 ATHLETIC OFFICIATING 3 Units
Formerly: H P 4
Advisory: Not open to students with credit in H P 4.
2 hours lecture, 3 hours laboratory.
Rules and mechanics of officiating interscholastic, intercollegiate and professional
athletics.

PHED 10A AQUATICS: LEVEL I, BEGINNING SWIMMING 1 Unit
May be taken 6 times for credit.
3 hours laboratory.
Introduction to swimming and safety skills. Includes physical and mental adjustment
to water, buoyancy and body position, survival skills, and basic swim strokes.

PHED 10B AQUATICS: LEVEL II, INTERMEDIATE SWIMMING 1 Unit
May be taken 6 times for credit.
3 hours laboratory.
A continuation of development of swim and safety skills beyond the beginning
phase. Includes physical and mental adjustment to water, buoyancy and body
position, survival skills, and the basic swim strokes.

PHED 10C AQUATICS LEVEL III, MASTERS SWIMMING/ADVANCED SWIM TRAINING 1 Unit
May be taken 6 times for credit.
3 hours laboratory.
Advanced program of swim strokes, competitive turns, and endurance training.

PHED 11A WATER EXERCISE 1 Unit
May be taken 6 times for credit.
3 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.

PHED 11B AQUATIC FITNESS 1 Unit
May be taken 6 times for credit.
3 hours laboratory.
An aerobic water fitness program applying the basic principles of exercise and
dynamics of water movement.

PHED 12A WATER SAFETY INSTRUCTOR 4 Units
3 hours lecture, 3 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.

PHED 12B LIFEGUARD TRAINING 4 Units
Formerly: H P 12
Advisory: Not open to students with credit in H P 12.
3 hours lecture, 3 hours laboratory.
A Red Cross certificate or approved course to prepare the student to carry out
all the duties and responsibilities of a non-surf lifeguard. Emphasis on skills and
concepts designed to prevent accidents and to rescue others in the water.

PHED 13A INTERMEDIATE/ADVANCED WATER POLO 1 Unit
Formerly: H P 8A
May be taken 6 times for credit.
3 hours laboratory.
Intermediate/advanced water polo for competitive play. Includes offensive and
defensive drills, strategies, and techniques.
PHED 17A  BEGINNING KARATE  1 Unit
Formerly: H P 84X
May be taken 6 times for credit.
3 hours laboratory.
Introduction to beginning skills and techniques of karate. Includes punching, blocking, striking and kicking techniques.

PHED 17B  INTERMEDIATE KARATE  1 Unit
Formerly: H P 84A
Prerequisite: PHED 17A or equivalent.
May be taken 6 times for credit.
3 hours laboratory.
Intermediate karate skills and techniques. Analysis and application of biomechanics, individual and group interaction, and uses of Karate.

PHED 18A  SELF-DEFENSE  1 Unit
Formerly: H P 31
May be taken 6 times for credit.
3 hours laboratory.
Class designed to develop the skill, knowledge, stamina and attitude to defend oneself properly in a variety of situations.

PHED 18B  SELF-DEFENSE FOR WOMEN  1 Unit
Formerly: H P 31A
May be taken 6 times for credit.
3 hours laboratory.
Introduction to women’s self-defense. Includes skills, psychology, strategy, tactics and conditions for self-protection and rape defense.

PHED 19A  FUNDAMENTALS OF TAI CHI  1 Unit
Formerly: H P 83
May be taken 6 times for credit.
3 hours laboratory.
Introduction to the internal martial art of Tai Chi. Includes practice and discussion of fundamental Tai Chi exercises and its relationship to mind-body awareness.

PHED 19B  KICKBOXING FOR FITNESS  1 Unit
May be taken 3 times for credit.
3 hours laboratory.
Introduction to the basic skills and mechanics of kickboxing for fitness. Total cardiovascular workout emphasizing footwork, body mechanics, punching and kicking combinations and basic offensive and defensive techniques.

PHED 20A  BEGINNING MAT PILATES  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
An intermediate level mat Pilates exercises and principles are combined to achieve body control, core strength and joint mobility. Students must provide their own fitness mat.

PHED 20B  INTERMEDIATE MAT PILATES  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
Intermediate level mat Pilates class focusing on fluid transitions between stretching and strengthening exercises to improve coordination, endurance, posture, flexibility and balance for a more streamlined shape. Students provide their own fitness mat.

PHED 20C  STANDING PILATES/YOGA FOR FITNESS  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
A fitness class designed to improve full body strength, stamina, balance and fluid movement utilizing standing Pilates and Yoga exercises. Students must provide their own fitness mat.

PHED 21A  BEGINNING HATHA YOGA  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
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.

PHED 21B  INTERMEDIATE HATHA YOGA  1 Unit
Advisory: Some beginning Hatha yoga is recommended.
May be taken 6 times for credit.
3 hours laboratory.
Intermediate training in Hatha yoga, skills and techniques; independent, group, and personalized training; emphasis on asana practice and pranayama.

PHED 21C  POWER YOGA  1 Unit
Formerly: H P 44P
May be taken 6 times for credit.
3 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.

PHED 21D  VINYASA FLOW YOGA  1 Unit
Formerly: H P 44V
May be taken 6 times for credit.
3 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.

PHED 22  FULL BODY FLEXIBILITY  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
Increased flexibility enhances physical performance, helps maintain muscle fitness and assists in injury rehabilitation. This course is designed for individuals with a variety of fitness experience levels. Students must provide their own fitness mat.

PHED 22A  STRETCHING & PILATES FOR FLEXIBILITY  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
A stretching program emphasizing seated flexibility exercises for the hips, hamstrings and spine. Complimentary abdominal exercises and standing postures will be included to develop balance, tone and endurance. Students must provide their own fitness mat.

PHED 22B  PILATES & YOGA  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
This class combines basic Pilates mat exercises to strengthen abdominals with full body yoga based stretches for development of improved posture, flexibility, and relaxation. Students must provide their own fitness mat.

PHED 22C  CORE FLOW STRENGTH  1 Unit
Formerly: H P 32F
May be taken 6 times for credit.
3 hours laboratory.
A combination Pilates and Yoga class designed to improve strength, body control, and coordination. Resistance and stability equipment will be incorporated with abdominal, low back, and full body exercises. Students must provide their own fitness mat.

PHED 23A  TRAIL HIKING  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
This course will provide students the opportunity to exercise in the great outdoors to gain and improve cardiovascular fitness, muscular strength and endurance through hiking at a fitness pace on the trail.

PHED 23B  DAY HIKING  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
A hiking class designed to prepare healthy, fit individuals for a final 8-12 mile hike on established trails over moderate to steep terrain.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED 23C</td>
<td>MULTI-DAY HIKING</td>
<td>2</td>
</tr>
<tr>
<td>PHED 24</td>
<td>INTRODUCTION TO GOLF</td>
<td>1</td>
</tr>
<tr>
<td>PHED 24A</td>
<td>SKILL DEVELOPMENT FOR THE EXPERIENCED GOLFER</td>
<td>1</td>
</tr>
<tr>
<td>PHED 24B</td>
<td>SKILLS OF GOLF COURSE PLAY</td>
<td>2</td>
</tr>
<tr>
<td>PHED 25A</td>
<td>SWING ANALYSIS</td>
<td>1</td>
</tr>
<tr>
<td>PHED 26</td>
<td>BEGINNING TENNIS SKILLS</td>
<td>1</td>
</tr>
<tr>
<td>PHED 26A</td>
<td>INTERMEDIATE/ADVANCED TENNIS</td>
<td>1</td>
</tr>
<tr>
<td>PHED 26B</td>
<td>DOUBLES TENNIS</td>
<td>1</td>
</tr>
<tr>
<td>PHED 27</td>
<td>WALK FOR HEALTH</td>
<td>1</td>
</tr>
<tr>
<td>PHED 27A</td>
<td>RUN FOR FITNESS</td>
<td>1</td>
</tr>
<tr>
<td>PHED 28</td>
<td>SLOW PITCH SOFTBALL</td>
<td>1</td>
</tr>
<tr>
<td>PHED 29</td>
<td>FUTSAL-INDOOR SOCCER</td>
<td>1</td>
</tr>
<tr>
<td>PHED 30</td>
<td>WINTER SPORTS CONDITIONING</td>
<td>1</td>
</tr>
<tr>
<td>PHED 31</td>
<td>MOUNTAIN BIKING</td>
<td>1</td>
</tr>
<tr>
<td>PHED 32</td>
<td>SKILLS OF SKIING</td>
<td>1</td>
</tr>
<tr>
<td>PHED 33</td>
<td>SKILLS OF SNOWMOBILE SKIING</td>
<td>1</td>
</tr>
<tr>
<td>PHED 34</td>
<td>INTERCOLLEGIATE GOLF (WOMEN)</td>
<td>3</td>
</tr>
<tr>
<td>PHED 35</td>
<td>INTERCOLLEGIATE TENNIS (WOMEN)</td>
<td>3</td>
</tr>
<tr>
<td>PHED 36</td>
<td>INTERCOLLEGIATE BASKETBALL (WOMEN)</td>
<td>3</td>
</tr>
<tr>
<td>PHED 37</td>
<td>INTERCOLLEGIATE SOFTBALL (WOMEN)</td>
<td>3</td>
</tr>
<tr>
<td>PHED 38</td>
<td>SKILLS OF GOLF (WOMEN)</td>
<td>3</td>
</tr>
</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
PHED 34G  INTERCOLLEGIATE DANCE PERFORMANCE  3 Units
Formerly: H P 40P
Advisory: Not open to students with credit in DANC 11. May be taken 6 times for credit.
15 hours laboratory.
Supervised participation in scheduled productions of the dance department, in cast or crew. A laboratory course for the resident and touring company of the college, including instruction on the how to of a full-scale theatrical production for public performance.

PHED 34H  PRE-SEASON CONDITIONING  2 Units
Formerly: H P 33K
May be taken 6 times for credit.
6 hours lecture-laboratory.
A continuation in the development of athletic skills, physical and mental conditioning which is required to be successful in intercollegiate athletics.

PHED 35A  INTERCOLLEGIATE SOCCER (MEN)  3 Units
Formerly: H P 40B
May be taken 6 times for credit.
15 hours lecture-laboratory.
Competitive intercollegiate soccer working toward personal development, athletic scholarship and career opportunities.

PHED 35B  INTERCOLLEGIATE FOOTBALL (MEN)  3 Units
Formerly: H P 40C
May be taken 6 times for credit.
15 hours lecture-laboratory.
Competitive intercollegiate football working toward personal development, athletic scholarship and career opportunities.

PHED 35C  INTERCOLLEGIATE BASKETBALL (MEN)  3 Units
 Formerly: H P 40D
May be taken 6 times for credit.
15 hours lecture-laboratory.
Competitive intercollegiate basketball working toward personal development, athletic scholarship and career opportunities.

PHED 35D  INTERCOLLEGIATE TENNIS (MEN)  3 Units
Formerly: H P 40E
May be taken 6 times for credit.
15 hours lecture-laboratory.
Competitive intercollegiate tennis working toward personal development, athletic scholarship and career opportunities.

PHED 35E  INTERCOLLEGIATE GOLF (MEN)  3 Units
Formerly: H P 40G
May be taken 4 times for credit.
15 hours lecture-laboratory.
Competitive intercollegiate golf working toward skill development, athletic scholarship and career opportunities.

PHED 35F  INTERCOLLEGIATE SWIMMING (MEN & WOMEN)  3 Units
Formerly: H P 40H
May be taken 6 times for credit.
15 hours lecture-laboratory.
Competitive intercollegiate swimming program for student athletes working on skill development, athletic scholarship and career opportunities.

PHED 35G  INTERCOLLEGIATE WATER POLO  3 Units
Formerly: H P 40K
May be taken 6 times for credit.
15 hours lecture-laboratory.
Competitive intercollegiate water polo working toward personal development, athletic scholarship and career opportunities.

PHED 36  INDOOR ARCHERY  1 Unit
Formerly: H P 23A
May be taken 6 times for credit.
3 hours laboratory.
Introduction to the sport of archery. Emphasis will be placed on instinctive shooting, scoring, terminology, safety and etiquette.

PHED 37  BADMINTON: SINGLES & DOUBLES  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
Strategy and competition for both singles and doubles in badminton play.

PHED 38A  BASKETBALL FUNDAMENTALS  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
An introduction to the fundamental skills and strategies of the team sport of basketball. Skill work drills and full-court tournament play.

PHED 38B  BASKETBALL GAME SKILLS  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
Tournament play plus an individual emphasis on intermediate skill development and the techniques of team play.

PHED 39  INDOOR SOCCER  1 Unit
Formerly: H P 29A
May be taken 6 times for credit.
3 hours laboratory.
Introduction in the fundamental skills and strategies for indoor soccer. Includes rules and an opportunity for active participation in game situations.

PHED 40  BEGINNING VOLLEYBALL  1 Unit
Formerly: H P 30
May be taken 6 times for credit.
3 hours laboratory.
Introduction to the game of volleyball. Includes basic skills, strategy, and team play.

PHED 41  INDOOR CYCLING-SPIN  1 Unit
Formerly: H P 46B
May be taken 6 times for credit.
3 hours laboratory.
An indoor cycling program to enhance cardiovascular fitness and improve cycling techniques. Emphasis will be on improving endurance through non-impact activity.

PHED 42  BOWLING FOR FITNESS  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
A comprehensive study of the physical skills and practice for lifetime enjoyment of bowling.

PHED 45  FITNESS FOR LIFE  1 Unit
PHED 45X  2 Units
May be taken 6 times for credit.
3 hours laboratory.
The course is designed to increase muscle strength, endurance and cardiovascular fitness through self paced program of use on cardio, strength and fitness machines.

PHED 46  WEIGHT LIFTING FOR HEALTH & FITNESS  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
This course will provide training and instruction on the use of weights for lifetime fitness and health.

PHED 47A  STEP AEROBICS  1 Unit
Formerly: H P 14B
May be taken 6 times for credit.
3 hours laboratory.
An introduction to step aerobics. Emphasis is placed on developing, maintaining and/or improving flexibility, strength and cardiovascular endurance.

PHED 47B  THIGHS, ABS & GLUTEUS (TAG)  1 Unit
Formerly: H P 32G
May be taken 6 times for credit.
3 hours laboratory.
This course is designed to strengthen thigh, abdominal and gluteus muscles in an intensive, fun and highly energized workout.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
PHED 47C  CARDIO STRENGTH & SCULPT  1 Unit
Formerly: H P 14F
May be taken 6 times for credit.
3 hours laboratory.
Resistance exercises combined with an aerobic activity. Students must provide
their own fitness mat.

PHED 49A  SURVIVOR TRAINING  1 Unit
Formerly: H P 16D
May be taken 6 times for credit.
3 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.

PHED 49B  BOOT CAMP TRAINING  3 Units
Formerly: H P 3C
May be taken 6 times for credit.
3 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.

PHED 50A  SPECIAL PROJECTS IN PHYSICAL EDUCATION  2 Units
Formerly: H P 60
May be taken 6 times for credit.
6 hours laboratory.
Individual development of special projects, materials and activities related to
physical education and athletics.

PHED 50B  FITNESS ASSESSMENT  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
Physical fitness assessment techniques employing an exercise testing lab. Individual
physical profiles will be developed along with nutritional and training recommendations.

PHED 50C  NUTRITIONAL ASSESSMENT & FITNESS  1 Unit
May be taken 6 times for credit.
3 hours laboratory.
A study of nutritional concepts, body fat assessment and work-out programs for
lifetime fitness

PHED 51  MASTER’S SWIMMING/ADVANCED SWIM TRAINING  2 Units
Formerly: H P 13
May be taken 6 times for credit.
6 hours laboratory.
Advanced program of swim strokes, competitive turns and endurance training.

PHED 52  YEARLONG GOLF  3 Units
May be taken a maximum of 6 times for credit.
3 hours laboratory per week.
Development of golf skills and play for both the beginning and intermediate golfer.
This class is continued for three academic quarters, fall, winter and spring.

PHED 53  HEALTH & FITNESS ACTIVITIES  3 Units
May be taken 6 times for credit.
9 hours laboratory.
Year long course designed to develop and increase health and fitness using cardio,
strength and flexibility training.

PHED 62A  CLINICAL EXPERIENCES IN SPORTS MEDICINE I  3 Units
Formerly: H P 52A
Prerequisite: Completion of, or concurrent enrollment in PHED 67 series
or equivalent or instructor authorization.
May be taken 3 times for credit.
9 hours 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.

PHED 62B  CLINICAL EXPERIENCES IN SPORTS MEDICINE II  3 Units
Formerly: H P 52A
Prerequisite: Completion of, or concurrent enrollment in PHED 67 series
or equivalent or instructor authorization.
May be taken 3 times for credit.
9 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.

PHED 62C  CLINICAL EXPERIENCES IN SPORTS MEDICINE III  3 Units
Formerly: H P 52B
Prerequisite: Completion of PHED 62A and 62B. Completion of, or concurrent
enrollment in PHED 67 series or equivalent or instructor authorization.
May be taken 3 times for credit.
9 hours laboratory.
Hands-on experience in emergency care, injury prevention, treatment and
rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Off-
campus athletic training facilities and outpatient physical therapy clinics may
also be utilized for the internship. Observation of orthopedic surgical procedures
with the permission of the team physician is available.

PHED 62D  CLINICAL EXPERIENCES IN SPORTS MEDICINE IV  3 Units
Formerly: H P 52B
Prerequisite: Completion of PHED 62A, 62B and 62C. Completion of, or
concurrent enrollment in PHED 67 series or equivalent or instructor authorization.
May be taken 3 times for credit.
9 hours laboratory.
Hands-on experience in emergency care, injury prevention, treatment and
rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Off-
campus athletic training facilities and outpatient physical therapy clinics may
be utilized for the internship. Observation of orthopedic surgical procedures with
the permission of the team physician is available.

PHED 62E  CLINICAL EXPERIENCES IN SPORTS MEDICINE V  3 Units
Formerly: H P 52C
Prerequisite: Completion of PHED 62A, 62B, 62C and 62D. Completion of,
or concurrent enrollment in PHED 67 series or equivalent, or instructor
authorization.
May be taken 3 times for credit.
9 hours 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.

PHED 65A  PNF: INTRODUCTION TO THE UPPER EXTREMITY  3 Units
Formerly: H P 52F
Prerequisite: Completion of PHED 67 series, 3 hours laboratory, 1 hour terminal time.
Theory and hands on practice emphasizing the upper extremity: stretching,
strengthening, stabilization and active/passive range of motion including goniometric
measurements.

PHED 65B  PNF: INTRODUCTION TO THE LOWER EXTREMITY  3 Units
Formerly: H P 52G
2 hours lecture, 3 hours laboratory, 1 hour terminal time.
Theory and hands on practice emphasizing lower extremity stretching, strengthening,
stabilization and active range of motion including goniometric measurement.

PHED 66  FIRST AID & CPR/AED  2 Units
Formerly: H P 51C
May be taken 6 times for credit.
1 hour lecture, 3 hours laboratory.
This course is designed to provide the layperson with the knowledge and skills
to respond to an emergency. The course will provide certification opportunity in
First Aid and CPR/AED as well as Professional Rescuer.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version
of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
PHED 67A  PREVENTION OF ATHLETIC INJURIES  3 Units
   Formerly: H P 67A
   Advisory: Not open to students with credit in H P 67A.
   2 hours lecture, 3 hours laboratory.
   Athletic injury prevention is emphasized through pre-participation physical exams, exercise programs, preventative taping, proper fitting of equipment, and protective braces.

PHED 67B  EMERGENCY ATHLETIC INJURY CARE  3 Units
   Formerly: H P 67B
   Advisory: Not open to students with credit in H P 67B.
   2 hours lecture, 3 hours laboratory
   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 traumas. Practical hands-on skills are emphasized in laboratories.

PHED 67C  TREATMENT & REHABILITATION OF ATHLETIC INJURIES  3 Units
   Formerly: H P 67C
   2 hours lecture, 3 hours laboratory, 1 hour terminal time.
   Follow-up injury treatment, phases of tissue healing, and stages of rehabilitation including therapeutic modalities.

PHED 101  TOURNAMENT GOLF TRAVEL CLASS  1 Unit
   May be taken 6 times for credit.
   3 hours laboratory.
   Travel class for experienced golfers who wish to explore their golf skills in different countries and states.

PHED 380  SPORTS FITNESS & BODY MOVEMENT  0 Units
   PHED 380X  0 Units
   PHED 380Y  0 Units
   PHED 380Z  0 Units
   Formerly: HP 380
   Non-degree applicable credit course.
   May be taken 6 times for credit.
   3 hours laboratory.
   Additional time for exercise through sport and fitness activities ensure students complete the requirements and objectives for intercollegiate sports and related activities.

PHED 390  CORPORATE SPORTS FITNESS  0 Units
   PHED 390X  0 Units
   PHED 390Y  0 Units
   PHED 390Z  0 Units
   Formerly: H P 390
   Non-degree applicable credit course.
   May be taken 6 times for credit.
   3 hours laboratory.
   Exercise and sport activity will be used to enhance healthy living, increase total fitness and reduce stress.

PHYSICAL SCIENCES & ENGINEERING

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

PSE 41  CLASS PRACTICES: MIDDLE-SCHOOL SCIENCE  2 Units
   Formerly: CHEM 41
   Prerequisite: Satisfactory score on the mathematics placement test or MATH 104 or 105; satisfactory completion of a college level chemistry or physics course; recommendation from a math, physics, or chemistry faculty and approval by the instructor; will require a current TB test, finger printing, and background investigation.
   Advisory: ENGL 100 or ESL 25. Pass/No Pass. Not open to students with credit in CHEM 41.
   1 hour lecture, 3 hours laboratory.
   Introduce prospective science, technology, engineering, and mathematics (STEM) teachers to the field of middle school education and the teaching and learning of science in middle school classrooms. Pairs of students are placed in local middle school classrooms to observe, participate, and assist a Mentor Teacher in instruction. Students also participate in the weekly seminar and discussion of learning in K-12 science concepts at this level. Foothill students are expected to work a minimum of 30 hours ( 3hrs/week x 10 weeks; will be adjusted for middle school calendar as required) in the middle school classroom during the quarter. Introduced to the concepts that as classroom assistants or teachers, they are role models to the elementary students and there is a large responsibility inherent in assuming this role. Support creating a respectful and inclusive classroom atmosphere where children learn most effectively.

PSE 42  CLASS PRACTICES: ELEMENTARY-SCHOOL SCIENCE  2 Units
   Formerly: CHEM 42
   Prerequisite: Satisfactory score on the mathematics placement test or MATH 104 or 105; satisfactory completion of a college level chemistry or physics course; recommendation from a math, physics, or chemistry faculty and approval by the instructor; will require a current TB test, finger printing, and background investigation.
   Advisory: ENGL 100 or ESL 25 recommended; Pass/No Pass; not open to students with credit in CHEM 42.
   1 hour lecture, 3 hours laboratory.
   Introduce prospective science, technology, engineering, and mathematics (STEM) teachers to the field of elementary school education and the teaching and learning of science in elementary school classrooms. Pairs of students are placed in local elementary school classrooms to observe, participate, and assist a Mentor Teacher in instruction. Students also participate in the weekly seminar and are introduced to inquiry-based learning practices, National and California standards, reading and learning differences in children and the cognitive ability of elementary-age children as it relates to the introduction of concepts, curricular planning, classroom management, and learning assessment. Foothill students are expected to work a minimum of 30 hours (3hrs/week x 10 weeks; will be adjusted for elementary school calendar as required) in the elementary school classroom during the quarter. Introduced to the concepts that as classroom assistants or teachers, they are role models to the elementary students and there is a large responsibility inherent in assuming this role. Contribute to creating a respectful and inclusive classroom atmosphere where children learn most effectively.

PSE 43  CLASS PRACTICES: HIGH SCHOOL SCIENCE  2 Units
   Formerly: CHEM 43
   Prerequisite: Satisfactory score on the mathematics placement test or MATH 104 or 105; satisfactory completion of a college level chemistry or physics course; recommendation from a math, physics, or chemistry faculty and approval by the instructor; will require a current TB test, finger printing, and background investigation.
   Advisory: ENGL 100 or ESL 25; Pass/No Pass.
   1 hour lecture, 3 hours laboratory.
   Introduce prospective science, technology, engineering, and mathematics (STEM) teachers to the field of high school education and the teaching and learning of science in high school classrooms. Students are placed in local high school classrooms to observe, participate, and assist a mentor teacher in instruction. Students also participate in the weekly seminar and discussion of learning in K-12 culture, cognitive development of students, and best means to teach appropriate science concepts at this level. Foothill students are expected to work a minimum of 30 hours (3hrs/week x 10 weeks; will be adjusted for K-12 calendar as required) in the high school classroom during the quarter. Introduced to the concepts that as classroom assistants or teachers, they are role models to the K-12 students and there is a large responsibility inherent in assuming this role. Support creating a respectful and inclusive classroom atmosphere where children learn most effectively.

PSE 111  PASS THE TORCH TEAM LEADER TRAINING  1 Unit
   Prerequisite: An earned A or B+ grade with instructor recommendation in one of the following courses: MATH 200, 220, 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 3 times for credit.
   1 hour lecture.
   Training in team leading skills necessary for assisting a member in the Pass the Torch Program, including study skills, college policies, professionalism, ethics and role modeling of successful student behavior. Techniques of subject specific tutoring skills, with attention given to diverse learning styles. Practice of these skills through sample student works and instructor assignments and, when applicable, content-specific suggestions from the member’s instructor.
All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
PHYS 380Z PHYSICS STUDENT ASSISTANCE 0 Units
Corequisite: Concurrent enrollment in any physics course.
May be repeated.
12 hours laboratory.
Individual study and/or guidance provided for students who desire or require additional assistance in any of the physics courses.

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

POLI 1 POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS 5 Units
Advisory: Eligibility for ENGL 1A.
Contemporary analysis of the structure and function of the American Government, its Constitutional and political systems at the Federal, State and local levels. [CAN GOVT 2]

POLI 2 COMPARATIVE GOVERNMENT & POLITICS 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Introductory analysis of comparative governmental systems and politics emphasizing a variety of political forms, theory of political differentiation and development, and patterns, processes and regularities among political systems in developing and developed world.

POLI 2H HONORS COMPARATIVE GOVERNMENT & POLITICS 4 Units
Prerequisite: Eligibility for ENGL 1A or ESL 26; Honors Institute participant.
4 hours lecture.
Introduction to comparative governmental systems and politics emphasizing a variety of political forms, theory of political differentiation and development, and patterns, processes and regularities among political systems in developing and developed world. As an honors course, it is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

POLI 3 INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY 5 Units
Advisory: Eligibility for ENGL 1A or ESL 26 recommended.
5 hours lecture.
Introduction to political philosophy/political theory. Central focus is on the history of political thought, the development of political ideologies and forms of the state. Concepts of the state of nature, human nature, natural rights, civil and political society are explored as integral parts of the range of political philosophies addressed.

POLI 3H HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY 5 Units
Prerequisite: Eligibility for ENGL 1A or ESL 26; Honors Institute participant.
5 hours lecture.
Analysis of the history of political thought, the development of various forms of political ideologies and their manifestation in forms of the state. Philosophical formulations of concepts of state of nature, natural law, natural rights, civil and political society explored as integral parts of political philosophies of: Plato and Aristotle, Augustine and Aquinas, Machiavelli and Hobbes, Locke and Rousseau, Bentham and Mill, Hegel, Marx and Gramsci. As an Honors Course, it is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

POLI 5 RUSSIAN & EAST EUROPEAN POLITICS 4 Units
4 hours lecture.
Historical and contemporary analysis of Russian and East European (Hungarian, Polish and Czecho-Slovak) political institutions and political cultures. Focus on transilvania, an examination of the factors related to each country’s contemporary political transition.

POLI 7 AMERICAN GOVERNMENT & POLITICS FROM A BLACK PERSPECTIVE 5 Units
5 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
Prerequisite: Eligibility for ENGL 1A, ESL 26 or equivalent.
Advisory: Not open to students with credit in GERM 8.
4 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.
4 hours lecture.
Overview of political economy emphasizing the interplay between economics and politics in the formulation of public policy. Policy issues of current significance emphasized.

POLI 9H HONORS POLITICAL ECONOMY 4 Units
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in ECON 9, 9H or POLI 9; eligibility for ENGL 1A or ESL 26 recommended.
4 hours lecture.
Overview of political economy emphasizing the interplay between Economics and politics in the formulation of public policy. Policy issues of current significance emphasized. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on extensive writing, reading, and research assignments, student lectures, group discussions and interactions. Distinguishing features include: heightened focus on and evaluation of global objectives and components of developed and developing nations, increased depth of analysis and breadth of examination, higher level of student critical thinking. Expanded learning outcomes and fuller description of these focused elements.

POLI 15 INTERNATIONAL RELATIONS/WORLD POLITICS 4 Units
Advisory: Eligibility for ENGL 1A or ESL 26 recommended; not open to students with credit in POLI 15H.
4 hours lecture.
Analysis of the basic elements of international relations, including the factors of sovereignty, nationalism, and national policies. The international struggle for hegemony and the impact of terrorism on world politics are systematically examined in the context of an increasingly unipolar world.

POLI 15H HONORS INTERNATIONAL RELATIONS/WORLD POLITICS 4 Units
Prerequisite: Eligibility for ENGL 1A or ESL 26; Honors Institute participant; not open to students with credit in POLI 15.
4 hours lecture.
Analysis of the theoretical formulations of international relations including factors of sovereignty and nationalism. Systematic evaluation of the contending perspectives of the international political economy, international relations theory, and the struggle for global hegemony in world politics within a unipolar world. As an Honors Course, it is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

POLI 24 20TH CENTURY AMERICAN FOREIGN POLICY 4 Units
Advisory: Not open to students with credit in HIST 24.
4 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 34H  HONORS INSTITUTE SEMINAR IN POLITICAL SCIENCE  1 Unit
Formerly: POLI 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in POLI 34.
1 hour lecture.
A seminar in directed readings, discussions and projects in political science.
Specific topics to be determined by the instructor.

POLI 35  DEPARTMENT HONORS PROJECTS IN POLITICAL SCIENCE  1 Unit
May be taken 6 times for credit.
1 hour lecture.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

POLI 36  SPECIAL PROJECTS IN POLITICAL SCIENCE  1 Unit
POLI 36X  2 Units
POLI 36Y  3 Units
POLI 36Z  4 Units
Any combination of POLI 36-36Z may be taken for a maximum of 6 units.
1 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  (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.
9 hours lecture, 10 hours lecture-laboratory, 2 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.
10 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: P C 80; Successful completion of previous didactic course in the Primary Care Associate Program.
8 hours lecture, 2 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: P C 80P; Successful completion of previous didactic courses in the Primary Care Associate Program.
27 hours clinic, 12 hours laboratory, 2 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: P C 81; Successful completion of previous didactic courses in the Primary Care Associate Program.
8 hours lecture, 2 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: P C 81P; Successful completion of previous clinical courses in the Primary Care Associate Program.
32 hours preceptor-clinic, 12 hours laboratory, 2 hours field study.
This is a continuation of PC 81P.

P C 83  FAMILY MEDICINE DIDACTIC  6 Units
Prerequisite: P C 82.
6 hours lecture, 2 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: P C 82P; Successful completion of previous clinical courses in Primary Care Associate Program.
32 hours preceptor-clinic, 12 hours laboratory, 2 hours field study.
Continuation of PC 82P.

P C 84  FAMILY MEDICINE DIDACTIC  8 Units
Prerequisite: P C 83.
8 hours lecture, 2 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: P C 83P; Successful completion of previous clinical courses in the Primary Care Associate Program.
32 hours preceptor-clinic, 12 hours laboratory, 2 hours field study.
This is a continuation of P C 83P.

P C 85  SPECIAL CLINICAL PROJECTS IN PRIMARY CARE MEDICINE  4 Units
P C 85X  5 Units
P C 85Y  6 Units
5 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 IN PRIMARY CARE MEDICINE  4 Units
P C 86X  5 Units
P C 86Y  6 Units
Prerequisite: Successful completion of previous didactic courses in the Primary Care Associate Program.
May be taken 6 times for credit.
5 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 6 times for credit.
5 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 6 times for credit.
10 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 6 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.
diverse and commonly-shared attitudes, beliefs and world views by society, culture
level of analysis and methodologies. Focus on human interaction and the shaping of
influence of society and social groups on the individual and the influence of the individual
4 hours lecture.

limitations of studying human behavior.
of each technique, applications of techniques using actual research studies;
experimentation, survey research, and field research. Examination of the logic
Introduction to the most common types of research on human behavior:
4 hours lecture.

compétency in learning skills.
For students who desire or require additional help in attaining comprehension and
.5 hour lecture, 1.5 hours laboratory for each unit of credit.

neurotic and psychotic behavior disorders and their major causes and treatment.
4 hours lecture.

PSYC 25 INTRODUCTION TO ABNORMAL PSYCHOLOGY 4 Units
4 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.
4 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
4 hours lecture.
Introduction to the determinants of personality and the dynamics of personality
as manifested in personal and social behavior.

PSYC 34H HONORS INSTITUTE SEMINAR IN PSYCHOLOGY 1 Unit
Formerly: PSYC 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in PSYC 34.
1 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 6 times for credit.
1 hour lecture.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

PSYC 36 SPECIAL PROJECTS IN PSYCHOLOGY 1 Unit
PSYC 36X 2 Units
PSYC 36Y 3 Units
PSYC 36Z 4 Units
Any combination of PSYC 36–36Z may be taken for a maximum of 6 units.
1 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
4 hours lecture.
Intellectual, social and personality development through the life span.

PSYC 49 HUMAN SEXUALITY 4 Units
4 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 50 PSYCHOLOGY OF CRISIS 5 Units
Advisory: PSYC 1 recommended.
4 hours lecture, 3 hours laboratory.
An Introduction to theory and strategies of crisis intervention, including exploration of
ethical and multicultural issues. Models of disaster response and crisis intervention
examined. Guidelines and role play of how crisis workers may react to victims of trauma,
safety issues, as well as coping with provider burnout. Discussion and demonstration
of critical incident debriefing. Observation and role play of appropriate crisis
intervention techniques for different field conditions. Students participate in training or
working with local crisis management agencies, as part of required field experience.

PSYC 55 PSYCHOLOGY OF SPORTS 4 Units
4 hours lecture.
Basis and catalyst for peak sports performance. Body/mind relationship, particularly
the area of peak performance in sports. Focus on relaxation, visualization, hypnosis,
neuropsychology, physiology, left vs. right brain hemisphere specialization,
concentration techniques, motivation, emotion and attitude improvement.

RADIATION THERAPY TECHNOLOGY
Biological & Health Sciences
www.foothill.edu/bio/programs/radther/

RTT 57 ORIENTATION TO RADIATION THERAPY TECHNOLOGY 2.5 Units
Prerequisite: Admission to Radiation Therapy Technology Program.
2 hours lecture, 3 hours clinic.
Orientation to Radiation Therapy Technology with an introduction to clinical participation.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version
of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite:</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTT 57</td>
<td>FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY FOR RADIATION THERAPISTS</td>
<td>3</td>
<td>RTT 57.</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture. Study of basic production and recording of radiographic</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>images for patient simulation, treatment planning and treatment verification</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>in radiation oncology. Nursing procedures and techniques used in patient</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>care with emphasis on anatomy and pathology related to the chest will be</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>covered. Medical ethics and patient rights.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 58A</td>
<td>FUNDAMENTALS OF RADIATION TECHNOLOGY</td>
<td>3</td>
<td>RTT 58A.</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture. Continuation of RTT 58A: Study of advanced imaging for</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>patient simulation, treatment planning and treatment verification in</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>radiation oncology. Nursing procedures and techniques used in patient care</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>with emphasis on anatomy and pathology related to the G.I. and urinary</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>systems. Medical emergencies, pharmacology and radiographic contrast agents.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 59A</td>
<td>TECHNICAL RADIATION ONCOLOGY</td>
<td>3</td>
<td>RTT 59A.</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture. Introduction to all technical aspects of radiation oncology</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>including history, safety, therapist duties, terminology, treatment</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>planning, equipment, treatment methods, simulations, and dose calculations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 59B</td>
<td>RADIATION ONCOLOGY &amp; PATHOLOGY</td>
<td>3</td>
<td>RTT 59B.</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture. Introduction to clinical radiation oncology including</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>therapist duties, terminology, treatment planning, treatment methods, and</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>treatment reactions. General pathology, oncologic pathology and principles</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>of clinical oncology.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 60</td>
<td>PATIENT CARE IN RADIATION ONCOLOGY</td>
<td>2</td>
<td>RTT 71C.</td>
</tr>
<tr>
<td></td>
<td>2 hours lecture. Patient care, nursing procedures and recordkeeping</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>pertinent to patients undergoing radiation therapy. Includes psychological</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>aspects of oncology, medical-legal concepts and quality assurance.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 61A</td>
<td>RADIATION THERAPY PHYSICS I</td>
<td>3</td>
<td>RTT 59B.</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture. Fundamentals of external beam radiation therapy physics,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>principles of radiation detection and measurement, dosimetry concepts, and</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>measurement and calculation of radiation dose.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 61B</td>
<td>RADIATION THERAPY PHYSICS II</td>
<td>3</td>
<td>RTT 61A.</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture. Fundamentals of nuclear physics and radioactive decay,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>brachytherapy, radiation protection, and health physics.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 62B</td>
<td>RADIATION BIOLOGY</td>
<td>3</td>
<td>RTT 61B.</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture. Effects of radiation at the molecular, cellular, tissue,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>system, and whole body levels. Modification of radiation response; late</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>effects of radiation; clinical radiobiology with emphasis on radiation</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>therapy.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 63C</td>
<td>RADIATION ONCOLOGY III</td>
<td>3</td>
<td>RTT 64C.</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture. Consolidation of all aspects of radiation therapy</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>technology in preparation for program completion.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 64A</td>
<td>CLINICAL RADIATION ONCOLOGY I</td>
<td>4</td>
<td>RTT 60.</td>
</tr>
<tr>
<td></td>
<td>4 hours lecture. Principles of clinical oncology and treatment with</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>concentration on breast, male reproductive and genitourinary sites.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anatomical review, treatment reactions and management, lymphatic drainage,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>simulation and treatment. Discussion of oncologic emergencies.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 64B</td>
<td>CLINICAL RADIATION ONCOLOGY II</td>
<td>4</td>
<td>RTT 64A.</td>
</tr>
<tr>
<td></td>
<td>4 hours lecture. Principles of clinical oncology and treatment with</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>concentration on gynecological and digestive tumors, lymphoreticular system,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>and Leukemia. Anatomical review, treatment reactions and management,</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>lymphatic drainage, simulation and treatment.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 64C</td>
<td>CLINICAL RADIATION ONCOLOGY III</td>
<td>4</td>
<td>RTT 64B.</td>
</tr>
<tr>
<td></td>
<td>4 hours lecture. Principles of clinical oncology and treatment with</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>concentration on head &amp; neck, central nervous system, lung, bone, soft</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>tissue, pediatric solid tumors. Anatomical review, treatment reactions and</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>management, lymphatic drainage, simulation and treatment.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 65A</td>
<td>GLIOBLASTOMA RADIATION ONCOLOGY</td>
<td>3</td>
<td>RTT 64B.</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture. Principles of clinical oncology and treatment</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>with concentration on glioblastoma.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RTT 67A</td>
<td>RADIATION THERAPY PHYSICS II RADIATION THERAPY PHYSICS III</td>
<td>4</td>
<td>RTT 64B.</td>
</tr>
<tr>
<td></td>
<td>4 hours lecture. Principles of clinical oncology and treatment</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>with concentration on glioblastoma.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
**RTT 73D**  
**CLINICAL PRACTICUM**  
3.5 Units  
Prerequisite: RTT 73C.  
16 hours clinic, 1 hour case study research.  
Advanced clinical participation; students assist in treatment planning, simulation, and concentration on completing procedures under supervision but without assistance, using independent judgment.

**RTT 80**  
**ADDITIONAL CLINICAL PRACTICUM**  
0.5 Unit  
RTT 80X  
1 Unit  
RTT 80Y  
1.5 Units  
Prerequisite: RTT 71A or subsequent clinical practicum.  
May be taken 6 times for credit.  
4 hours laboratory for each .5 unit of credit.  
Additional clinical practicum. Offers additional period of clinical experience for students needing further clinical time to develop requisite skills.

**RTT 190**  
**DIRECTED STUDY**  
0.5 Unit  
RTT 190X  
1 Unit  
RTT 190Y  
1.5 Units  
RTT 190Z  
2 Units  
Advisory: Pass/No Pass.  
Any combination of RTT 190–190Z may be taken a maximum of 6 times for credit.  
.5 hour lecture, 1.5 hours laboratory for each .5 unit of credit.  
For students who desire or require additional help in attaining comprehension and competency in learning skills.

**RTT 200L**  
**INTRODUCTION TO RADIATION THERAPY**  
1 Unit  
2 hours lecture-laboratory.  
An introduction to Radiation Therapy as a career. Duties and responsibilities of a radiation therapist student and requirements for admission to the program. Radiation Therapy specific medical terminology, safety, equipment, personnel and procedures.

---

**RADIO**

Fine Arts & Communication  
(850) 949-7555  
www.kfjc.org & www.foothill.edu

**RAD 70**  
**SPECIAL PROJECTS IN RADIO**  
1 Unit  
RAD 70X  
2 Units  
RAD 70Y  
3 Units  
RAD 70Z  
4 Units  
Any combination of RAD 70–70Z may be taken for a maximum of 48 units.  
3 hours of laboratory for each unit of credit.  
Individual projects in creative, technical or applied work in radio at KFJC or in commercial broadcasting and related industries. Enrollment is available in the Fine Arts & Communications Division office.

**RAD 80**  
**FUNDAMENTALS OF RADIO PRODUCTION & STATION OPERATION**  
3 Units  
2 hours lecture, 3.5 hours laboratory.  
Fundamentals of radio directing and production, and the related fields of news, public affairs, sales, promotions, and management. Practical equipment use, basic studio operations and FCC regulations; entry-level terminology and industry standards.

**RAD 81**  
**HISTORY OF RADIO 1920-PRESENT**  
4 Units  
4 hours lecture.  
A comprehensive study of the radio broadcasting industry, its origin, development, operation, regulation, and influences.

**RAD 90A**  
**NEWS & INFORMATION PRODUCTION**  
3 Units  
Advisory: Concurrent enrollment in RAD 80 recommended.  
1 hour lecture, 6 hours laboratory.  
Elementary scripting, voicing, and recording of informational programming. Introduction to news, public affairs, sports, and public service announcement production and department operations at the Foothill College FM station.

**RAD 90B**  
**NEWS & INFORMATION PRODUCTION**  
3 Units  
Prerequisite: RAD 90A.  
1 hour lecture, 6 hours laboratory.  
Intermediate scripting, voicing, and recording of informational programming.  
Advancement in news, public affairs, sports, public service announcement production and department operations at the Foothill College FM station.

**RAD 90C**  
**NEWS & INFORMATION PRODUCTION**  
3 Units  
Prerequisite: RAD 90A.  
1 hour lecture, 6 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 90D**  
**NEWS & INFORMATION PRODUCTION**  
3 Units  
Prerequisite: RAD 90A.  
1 hour lecture, 6 hours laboratory.  
Advanced scripting, voicing, and recording of informational programming.  
Advancement in news, public affairs, sports, and public service announcement production and department operations at the Foothill College FM station.

**RAD 91A**  
**RADIO STATION SALES & MARKETING**  
3 Units  
Advisory: RAD 90A.  
1 hour lecture, 6 hours laboratory.  
Fundamentals of radio sales training, marketing, promotions and publicity, and departmental operations at the Foothill College FM station.

**RAD 91B**  
**RADIO STATION SALES & MARKETING**  
3 Units  
Advisory: RAD 90.  
1 hour lecture, 6 hours laboratory.  
Intermediate radio sales training, marketing, publicity and promotions, and departmental operations at the Foothill College FM station.

**RAD 91C**  
**RADIO STATION SALES & MARKETING**  
3 Units  
Advisory: RAD 90A.  
1 hour lecture, 6 hours laboratory.  
Advanced radio sales training, marketing, promotions and publicity, and departmental operations at the Foothill College FM station.

**RAD 91D**  
**RADIO STATION SALES & MARKETING**  
3 Units  
Advisory: RAD 90A.  
1 hour lecture, 6 hours laboratory.  
Advanced radio sales training, marketing, promotions and publicity, and departmental operations at the Foothill College FM station.

**RAD 92A**  
**RADIO PROGRAMMING & PRODUCTION**  
3 Units  
Advisory: RAD 90A.  
1 hour lecture, 6 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.  
1 hour lecture, 6 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**  
**RADIO PROGRAMMING & PRODUCTION**  
3 Units  
Advisory: RAD 90A.  
1 hour lecture, 6 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 92D**  
**RADIO PROGRAMMING & PRODUCTION**  
3 Units  
Advisory: RAD 90A.  
1 hour lecture, 6 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.

---

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  
www.foothill.edu
RAD 93A  MUSIC INDUSTRY RELATIONS & ENGINEERING  3 Units
Advisory: RAD 90A.
1 hour lecture, 6 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.
1 hour lecture, 6 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.
1 hour lecture, 6 hours laboratory.
Advanced music industry relations and engineering. Soliciting product service, reporting to industry trade journals, producing live music performance broadcast mixes and mobile DJ appearances, and departmental operations at the Foothill College FM station.

RAD 93D  MUSIC INDUSTRY RELATIONS & ENGINEERING  3 Units
Advisory: RAD 90A.
1 hour lecture, 6 hours laboratory.
Beginning to advanced music industry relations and engineering. Soliciting product service, reporting to industry trade journals, producing live music performance broadcast mixes and mobile DJ appearances, and departmental operations at the Foothill College FM station.

RAD 190  DIRECTED STUDY  .5 Unit
RAD 190X  1 Unit
RAD 190Y  1.5 Units
RAD 190Z  2 Units
Advisory: Pass/No Pass.
Any combination of RAD 190-190Z may be taken for a maximum of 24 units. .5 hour lecture, 1.5 hours laboratory for each .5 unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

RADIOLOGIC TECHNOLOGY
Biological & Health Sciences  (550) 949-7249
www.foothill.edu/bio/programs/radtech/

R T 50  ORIENTATION TO RADIATION SCIENCE  TECHNOLOGIES  2 Units
Prerequisite: BIOL 40A, 40B and 40C or equivalency; admission to Radiologic Technology Program.
2 hours lecture.
Overview of Radiologic Technology as a career. Radiographic terminology, positioning for abdomen, vital sign assessment, introduction to x-ray protection and production, radiographic image formation, patient care, basic computer operation and Internet application. Overview of program structure and student services.

R T 51A  FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: Admission to Radiologic Technology Program.
3 hours lecture.
Medical and Radiographic terms. Basic positioning and anatomy related to chest, abdomen, upper extremities, lower extremities, pelvis and hips.

R T 51B  FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: R T 51A.
3 hours lecture.
Continuation of R T 51A: radiographic anatomy, positioning and procedures related to the gastrointestinal tract, urinary system and biliary system.

R T 51C  FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: R T 51B.
3 hours lecture.
Continuation of R T 51B: radiographic anatomy, positioning and terminology, related to the skull, vertebral column, bony thorax, myelography and arthrography.

R T 52A  PRINCIPLES OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: Admission to Radiologic Technology Program.
3 hours lecture.
Elementary principles of X-ray physics, technique and radiation protection.

R T 52B  PRINCIPLES OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: R T 52A.
3 hours lecture.
Continuation of R T 52A, including physics, technique, processing and protection.

R T 52C  PRINCIPLES OF RADIOLOGIC TECHNOLOGY  3 Units
Prerequisite: R T 52B.
3 hours lecture.
Continuation of R T 52B. Expansion of principles of X-ray physics, technique and protection.

R T 52D  PRINCIPLES OF RADIOLOGIC TECHNOLOGY  2 Units
Prerequisite: R T 52C.
2 hours lecture.

R T 53  ORIENTATION TO RADIOLOGIC TECHNOLOGY  1 Unit
Prerequisite: Admission to Radiologic Technology Program.
4 hours laboratory.
Orientation to radiation sciences, with emphasis on clinical participation.

R T 53A  APPLIED RADIOGRAPHIC TECHNOLOGY  3 Units
Prerequisite: Admission to Radiologic Technology Program.
16 hours laboratory, 2 hours case study research.
Applied radiography: includes clinical observation and application of film analyses, basic positioning, patient care, equipment, manipulation and irradiation protection.

R T 53AL  APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY  1 Unit
Prerequisite: Admission to Radiologic Technology Program.
3 hours laboratory.
Applied radiography: includes structured lab activities in processing, film analysis, basic positioning, patient care, equipment and radiographic experiment.

R T 53BL  APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY  1 Unit
Prerequisite: R T 53A.
3 hours laboratory.
Continuation of structured laboratory activities in applied radiography with emphasis on clinical skill development for positioning, processing, principles of exposure, film analyses, hospital observation.

R T 53B  APPLIED RADIOGRAPHIC TECHNOLOGY  3 Units
Prerequisite: R T 53A.
16 hours laboratory, 2 hours case study research.
Continuation of applied radiography with emphasis on clinical skill development for positioning, processing, principles of exposure, film analyses, hospital observation.

R T 53CL  APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY  1 Unit
Prerequisite: R T 53B.
3 hours laboratory.
Continuation of clinical skill development in positioning, technique selection, protection, clinical observation, and practicum.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>R T 53D</td>
<td>RADIOGRAPHIC CLINICAL PRACTICUM</td>
<td>8</td>
<td>Prerequisite: Completion of R T 51C, 52C and 53C. 27 hours laboratory, 2 hours case study research. Radiographic positioning, anatomy, pathology, terminology and nursing procedures. Includes pediatric radiography and non-routine gastrointestinal tract, biliary tract examinations. Clinical experience and film and analysis (eight-week summer intersession).</td>
</tr>
<tr>
<td>R T 54A</td>
<td>BASIC PATIENT CARE FOR IMAGING TECHNOLOGY</td>
<td>2</td>
<td>Formerly: R T 50B. Prerequisite: R T 50A. Advisory: Not open to students with credit in R T 50B. 2 hours lecture. Basic concepts of patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures and techniques as well as infection control protocols.</td>
</tr>
<tr>
<td>R T 54B</td>
<td>LAW &amp; ETHICS IN MEDICAL IMAGING</td>
<td>2</td>
<td>Formerly: R T 50A. Prerequisite: R T 54A. Advisory: Not open to students with credit in R T 50A. 2 hours lecture. A fundamental background in ethics. The historical and philosophical basis of ethics, as well as the elements of ethical behavior in regards to clinical practice. Misconduct, malpractice, legal and professional standards and the ASRT scope of practice.</td>
</tr>
<tr>
<td>R T 54C</td>
<td>PRINCIPLES OF RADIOLOGIC TECHNOLOGY</td>
<td>3</td>
<td>Formerly: R T 51D. Prerequisite: R T 54B. Advisory: Not open to students with credit in R T 51D. 3 hours lecture. Radiographic Pathology of the respiratory, osseous, urinary, gastrointestinal, central nervous, and hemopoietic system.</td>
</tr>
<tr>
<td>R T 61B</td>
<td>RADIOLOGY RESEARCH PROJECT</td>
<td>1</td>
<td>Prerequisite: R T 62A and 63A. 1 hour lecture, 2 hours case study research. Research project on a highly specialized area of radiography or other imaging modality. Individual display/research paper required. Specific topics to be determined by the instructor.</td>
</tr>
<tr>
<td>R T 62A</td>
<td>RADIOGRAPHIC POSITIONING</td>
<td>3</td>
<td>Prerequisite: R T 52C and 53D. 3 hours lecture. Specialized radiographic procedures related to Magnetic Resonance Imaging and Computed Tomography. Computer applications related to image capture, display, storage, and distribution. Sectional anatomy of the head, neck, thorax, abdomen, pelvis, vertebral column, and extremities.</td>
</tr>
<tr>
<td>R T 62B</td>
<td>SPECIAL PROCEDURES &amp; EQUIPMENT</td>
<td>3</td>
<td>Prerequisite: R T 62A and 63A. 3 hours lecture. Continuation of R T 62A with emphasis on radiography of the skull, facial bones, mandible, and sinuses. Advanced radiographic procedures with emphasis on angiographic, cerebral, heart and interventional procedures, angiographic equipment, radiographic anatomy and pathology.</td>
</tr>
<tr>
<td>R T 62C</td>
<td>ADVANCED RADIOGRAPHIC POSITIONING</td>
<td>3</td>
<td>Prerequisite: R T 62B and 63B. 3 hours lecture. Continuation of R T 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.</td>
</tr>
<tr>
<td>R T 62D</td>
<td>APPLIED RADIOLOGIC TECHNOLOGY</td>
<td>1</td>
<td>Prerequisite: R T 62C. 6 hours clinical laboratory. Clinical experience in advanced positioning of the skull, facial bones, mastoids and sinuses with emphasis on computed tomography.</td>
</tr>
<tr>
<td>R T 63</td>
<td>ADVANCED RADIOGRAPHIC PRINCIPLES</td>
<td>3</td>
<td>Prerequisite: R T 62B. 3 hours lecture. Special emphasis on advanced radiographic physics, technique, protection and positioning for registry examination preparation. Continued clinical experience and film analysis.</td>
</tr>
<tr>
<td>R T 63A</td>
<td>RADIOGRAPHIC CLINICAL PRACTICUM</td>
<td>7.5</td>
<td>Prerequisite: R T 52C and 53D. 32 hours laboratory, 2 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.</td>
</tr>
<tr>
<td>R T 63B</td>
<td>RADIOGRAPHIC CLINICAL PRACTICUM</td>
<td>7.5</td>
<td>Prerequisite: R T 62A and 63A. 31 hours laboratory, 2 hours case study research. Special radiographic equipment, imaging modalities, and special radiographic procedures. Radiographic anatomy and pathology. Related clinical experience.</td>
</tr>
<tr>
<td>R T 63C</td>
<td>RADIOGRAPHIC CLINICAL PRACTICUM</td>
<td>7.5</td>
<td>Prerequisite: R T 62B and 63B. 32 hours laboratory. Continuation of R T 62B with emphasis on pediatric skull radiography, facial bone radiography, non-routine positioning of the osseous system. Quality control practices. Advanced clinical experience.</td>
</tr>
<tr>
<td>R T 63D</td>
<td>RADIOGRAPHIC CLINICAL PRACTICUM</td>
<td>7.5</td>
<td>Prerequisite: R T 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.</td>
</tr>
<tr>
<td>R T 64</td>
<td>FLUOROSCOPY</td>
<td>4.5</td>
<td>Prerequisite: R T 52C or current certification in Radiologic Technology or Radiation Therapy Technology. May be taken 3 times for credit. 4 hours lecture, 1.5 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.</td>
</tr>
<tr>
<td>R T 65</td>
<td>MAMMOGRAPHY</td>
<td>3</td>
<td>Prerequisite: R T 65 or current certification in Radiologic Technology. May be taken 3 times for credit. 2.5 hours lecture, 1.5 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.</td>
</tr>
<tr>
<td>R T 70A</td>
<td>ADVANCED CLINICAL EXPERIENCE: SPECIAL PROCEDURES</td>
<td>8</td>
<td>Prerequisite: One year post ARRT and CRT; a minimum of 5 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.</td>
</tr>
<tr>
<td>R T 70B</td>
<td>ADVANCED CLINICAL EXPERIENCE: SPECIAL PROCEDURES</td>
<td>8</td>
<td>Prerequisite: R T 70A. 40 hours clinical laboratory. Continuation of R T 70A, with emphasis on special radiographic equipment, imaging modalities, and special radiographic procedures.</td>
</tr>
</tbody>
</table>
R T 71  ADVANCED CLINICAL EXPERIENCE: 8 Units
MAGNETIC RESONANCE IMAGING
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
Prerequisite: R T 51C or current Certification in Radiologic Technology; current Health Care Provider CPR card.
1.5 hours lecture, 1.5 hours laboratory.

R T 73  ADVANCED CLINICAL EXPERIENCE: 8 Units
MAMMOGRAPHY
Prerequisite: ARRT/CRT Certification or eligible; successful completion of RT 65; 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: 8 Units
COMPUTED TOMOGRAPHY
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 190–190Z may be taken a maximum of 6 times for credit. .5 hour lecture, 1.5 hours laboratory for each .5 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
2 hours lecture-laboratory.
Introduction to the radiological sciences and their role in health care. Focus on the use of ionizing radiation in the diagnosis and treatment of disease and on the health professionals responsible for providing this medical specialty. Discussion of requirements for the Radiologic Technology Program. (Six hours hospital observation included).

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

R E 50  REAL ESTATE PRINCIPLES 4 Units
4 hours lecture.
Fundamental principles, economics, law, working concepts, forms, and terminology. California real estate law as preparation for the salesman and broker examinations.

R E 51  REAL ESTATE PRACTICES 4 Units
Advisory: Completion of, or concurrent enrollment in R E 50 or a current California real estate sales or broker’s license.
4 hours lecture.
Emphasizes day-to-day practical knowledge needed by persons engaged in the real estate business; procedures, forms, contracts; licensing laws; State of California Code of Professional Responsibility; and NAR Code of Ethics.

R E 52A  LEGAL ASPECTS OF REAL ESTATE I 4 Units
Advisory: Completion of, or concurrent enrollment in R E 50.
4 hours lecture.
California real property laws with emphasis on practical application. Illustrative California court cases and examples used for class discussions. Subjects covered include sources of real estate law; classes of property; fixtures; easements; estates or interests in real property; contracts of sale; covenants; conditions and restrictions. Mandatory for all real estate broker applicants.

R E 53  REAL ESTATE FINANCE 4 Units
4 hours lecture.
Regulations and procedures for financing real estate; types of lenders; methods of qualifying for loans; uses of mortgages, trust deeds, leases, common stock, bonds; financial analysis of real properties.

R E 54  REAL ESTATE ECONOMICS 4 Units
4 hours lecture.
Economic factors affecting real estate; urban development, renewal and regulation of land uses; business fluctuations and real estate cycles; mortgage market; commercial, industrial and residential income properties and trends; rural and special purposes properties and trends.

R E 56A  REAL ESTATE APPRAISAL I 4 Units
Advisory: Completion of, or concurrent enrollment in R E 50.
4 hours lecture.
Introduction to principles of real estate valuation. Appraisal profession and process: data collection, methods, statistical analysis, the appraisal report, ethics. Emphasis on residential construction. Qualifies for California Appraiser Certification licensing requirements and broker’s licenses.

R E 56B  REAL ESTATE APPRAISAL II 4 Units
Prerequisite: R E 56A.
4 hours lecture.
Advanced principles and practices of real estate valuation. Emphasis on appraising income property. Data collection, analysis, and reporting for commercial, apartment house, industrial, and vacant land. Qualifies for California Appraiser Certification licensing requirements and for broker’s license requirements.

R E 59  SURVEY OF REAL ESTATE PROPERTY MANAGEMENT 4 Units
Advisory: Completion of, or concurrent enrollment in R E 50.
4 hours lecture.
Successful techniques and practices in the management of income property from acquisition to disposal; neighborhood analyses, rent schedules, renting, credit, collections, evictions, maintenance and rehabilitation; insurance, tax considerations, depreciation schedules, pitfalls in purchase of income property.

R E 61  INTRODUCTION TO REAL ESTATE INVESTMENTS 4 Units
4 hours lecture.
Basic concepts and ideas concerning real estate investment for the beginning investor. How to evaluate an investment in terms of personal goals, return of investment, return on investment, tax advantages, and long-range trends. Methods of financing and managing real estate investments.

R E 73  COMMERCIAL REAL ESTATE FINANCE & INVESTMENT 4 Units
4 hours lecture.
Fundamental principles of finance and investment in local and regional commercial real estate, emphasizing banking, loans, underwriting, appraisal, lease preparation and renting.

RESPIRATORY THERAPY TECHNOLOGY
Biological & Health Sciences  (650) 949-7358 www.foothill.edu/bio/programs/respther/

RSP 50A  RESPIRATORY THERAPY PROCEDURES 4.5 Units
Prerequisite: Acceptance into Respiratory Therapy Program.
Advisory: Eligibility for ESL 26 or ENGL 1A.
Corequisite: Concurrent enrollment in RSP 52.
3 hours lecture, 3 hours laboratory, 2 hours skill development, 1 hour field experience.
Basic hospital and respiratory therapy procedures. Vital signs, compressed gas equipment, oxygen therapy, medical asepsis, bedside pulmonary function testing, disaster and emergency procedures, back safety.

**RSPT 50B**  
**INTRODUCTION TO PROCEDURES & HOSPITAL ORIENTATION**  
6 Units  
Prerequisite: RSPT 50A; CPR certification (Health Provider C); RSPT 54.  
Advisory: RSPT 51A.  
3 hours lecture, 4.5 hours laboratory, 5 hours clinic, 2.5 hours skill development.  
Introduction to hospital and patient care, administration of hyperinflation therapy, humidity and aerosol therapy, chest physiotherapy techniques, use of bag/mask unit, infection control procedures.

**RSPT 50C**  
**THERAPEUTICS & INTRODUCTION TO MECHANICAL VENTILATION**  
4.5 Units  
Prerequisite: RSPT 50B and 53A.  
2 hours lecture, 2 hours laboratory, 10 hours clinic, 1.5 hours lecture-laboratory.  
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 51A**  
**INTRODUCTION TO RESPIRATORY ANATOMY & PHYSIOLOGY**  
2 Units  
Prerequisite: Acceptance into the Respiratory Therapy Program.  
2 hours lecture.  
Anatomy of the respiratory system, ventilation, diffusion of pulmonary gases, circulatory system, and oxygen transport.

**RSPT 51B**  
**RESPIRATORY PHYSIOLOGY**  
3 Units  
Prerequisite: RSPT 51A or equivalent.  
3 hours lecture.  
Respiratory physiology: normal and altered lung physiology; ventilation-perfusion relationships; control of ventilation; renal, aging, exercise, altitude, high pressure effects on physiology; and arterial blood gas interpretation and acid-base physiology.

**RSPT 51C**  
**PATIENT ASSESSMENT & PULMONARY DISEASE**  
4.5 Units  
Prerequisite: BIOL 41.  
Corequisite: RSPT 51B.  
4 hours lecture, 1 hour laboratory, 5 hour lecture-laboratory.  
Physiological approach to the etiology, management, and prognosis of the various respiratory diseases. Utilization of physical examination, chest X-ray and basic clinical laboratory tests in the diagnosis and treatment of pulmonary disease.

**RSPT 51X**  
**CARDIOPULMONARY ANATOMY, PHYSIOLOGY & PATHOLOGY**  
4 Units  
Prerequisite: Acceptance into the Upgrade Respiratory Therapy Program.  
May be taken 3 times for credit.  
4 hours lecture.  
Cardiopulmonary anatomy; respiratory physiology; respiratory lung mechanics; normal and altered lung physiology; ventilation-perfusion relationships; arterial blood gas interpretation and acid base balance; clinical laboratory tests; and cardiopulmonary disease.

**RSPT 52**  
**APPLIED SCIENCE FOR RESPIRATORY THERAPY**  
3 Units  
Prerequisite: CHEM 25 or 30A; MATH 220, or high school chemistry or equivalent.  
3 hours lecture.  
Basic mathematics and science principles applicable to Respiratory Therapy. Includes algebra review, metric system, behavior of matter, forces, acids and bases, and electrical safety.
RSPT 62 MANAGEMENT, RESUMES & 1 Unit
RSPT 62X NATIONAL BOARD EXAMINATION 4 Units
Prerequisite: RSPT 61B.
1 hour lecture, 1 hour skills development, 1 hour field experience.
A review of the concepts of management theory and good communication skills.
Developing a multicultural organization, current health care economics and resume preparation are covered. Students take the National Board for Respiratory Care Mock Entry-Level Examination.

RSPT 63A ADVANCED PATHOPHYSIOLOGY & 3 Units
PATIENT MANAGEMENT
Prerequisite: Completion of RSPT 61A or respiratory care practitioner status.
May be taken 3 times for credit.
3 hours lecture, 1 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 63X NEONATAL & PEDIATRIC INTENSIVE CARE, 4 Units
HOME CARE & MANAGEMENT
Prerequisite: RSPT 61A or 62X.
4 hours lecture, 1 hour skills development.
Neonatal and pediatric respiratory intensive care along with pulmonary rehabilitation and management of respiratory care services.

RSPT 64X ADVANCED PATHOPHYSIOLOGY & PATIENT 4 Units
MANAGEMENT & NBRC EXAMINATIONS
Prerequisite: Completion of RSPT 60X and 62X or their equivalent.
May be taken 3 times for credit.
4 hours lecture.
The assessment and treatment of patients with respiratory disease through the use of case studies that illustrate key concepts. Emphasis on information gathering and decision making for respiratory care patients. Helpful for NBRC Clinical Simulation Examination preparation.

RSPT 65 COMPUTER PATIENT SIMULATIONS .5 Unit
Prerequisite: RSPT 61A.
2 hours laboratory.
Information gathering and decision making in the management of patients with acute and chronic respiratory conditions.

RSPT 66A CONTINUING EDUCATION FOR RESPIRATORY 5 Unit
CARE: ADVANCED PATIENT MANAGEMENT
May be taken 6 times for credit.
2 hours laboratory.
This course will develop and strengthen the respiratory care practitioner’s ability to apply advanced patient management concepts in the field of respiratory care. Media materials will provide an alternative learning resource for non-traditional students.

RSPT 70A CLINICAL ROTATION 2 Units
Prerequisite: RSPT 50C and 51C.
10 hours laboratory.
Introduction to hospital departments. Clinical application of respiratory therapy procedures. Interpretation of basic diagnostic data and correlation to applied therapies.

RSPT 70B CLINICAL ROTATION 6 Units
Prerequisite: RSPT 61A and 70A.
30 hours laboratory.
Continuation of RSPT 70A with performance of more advanced respiratory therapy techniques. Interpretation of increasing amounts of clinical data and a correlation to applied therapies. Participation in cardiopulmonary resuscitations.

RSPT 70C CLINICAL ROTATION 6 Units
Prerequisite: RSPT 61B and 70B.
30 hours laboratory.
Continuation of RSPT 70B. Clinical application of theory relating to monitoring and management of neonate, pediatric, and adult intensive care unit patient.

RSPT 70D CLINICAL ROTATION 6 Units
Prerequisite: RSPT 70C.
30 hours laboratory.
Continuation of RSPT 70C. Further clinical experience with ventilation and special procedures of surgical, medical, neonatal, and pediatric intensive care, offered as options for remediation. Assignment dependent upon demonstrated student needs. Mini-rotations offered to qualified students, depending on interest.

RSPT 71A–G EXTENDED CLINICAL INTERNSHIP IN 1 Unit
RSP 72A–G RESPIRATORY THERAPY 2 Units
RSP 73A–G 3 Units
Prerequisite: Admission to the Respiratory Therapy Program.
Advisory: Pass/No Pass.
8 hours laboratory.
Extended clinical Internship. Offers additional period of clinical exposure for students needing further clinical time to develop requisite skills. Offered each quarter.

RSPT 80A RESPIRATORY THERAPY 2 Units
NATIONAL BOARD EXAM REVIEW
2 hours lecture.
This course will help the student prepare for the National Board for Respiratory Care Examinations. Designed to help guide the student’s course of study to enable successful passage of the National Board Examinations.

RSPT 80B ECG INTERPRETATION 1 Unit
Prerequisite: Licensed Health Care Professionals
1 hour lecture.
Electrocardiogram and rhythm recognition. Identification of abnormal conduction defects and basic understanding of 12 lead ECG interpretation.

RSPT 190 DIRECTED STUDY .5 Unit
RSPT 190X 1 Unit
RSPT 190Y 1.5 Units
RSPT 190Z 2 Units
Any combination of RSPT 190–190Z may be taken a maximum of 6 times for credit.
.5 hour lecture, 1.5 hours laboratory for each .5 unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

RSPT 200L INTRODUCTION TO RESPIRATORY THERAPY Non-degree applicable credit course.
1 Unit
2 hours lecture-laboratory.
Introduction to the career of respiratory therapy. Role of the respiratory therapist, areas of specialization in the field, educational requirements and future outlook. Clinical tasks will also be introduced.

ROTC
Foothill College participates in the Reserve Officer Training Corps (ROTC) programs at area universities so that students who want to earn ROTC credit while attending Foothill College may do so. Foothill College students can enroll in lower-division ROTC coursework which can ultimately result in a commission as an officer. Students who enroll in these programs should contact a Foothill counselor for credit and certification. For more information, call one of the following representatives:

Air Force: San Jose State University, (408) 924-2960
Army: Santa Clara University, (408) 554-4781
Navy: UC Berkeley, (510) 642-3351

SCIENCE
Biological & Health Sciences  
(650) 949-7249
www.foothill.edu/bhs/

SCI 34H HONORS INSTITUTE SEMINAR IN SCIENCE 1 Unit
Formerly: SCI 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in SCI 34.
1 hour lecture.
A seminar in directed readings, discussions and projects in science. Specific topics to be determined by the instructor.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
SOCIAL SCIENCE
Business & Social Sciences (650) 949-7322
www.foothill.edu/bss/

SOSC 20 CROSS-CULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY 4 Units
4 hours lecture.
Analysis of the multietnic forms of cultural domination and its diverse manifestation in society, emphasizing European and Third World cultures. Examination of the values and practices of democratic participation in social institutions in those cultures. Review theories, concepts and research applicable to majority-minority issues.

SOSC 34H HONORS INSTITUTE SEMINAR IN SOCIAL SCIENCE 1 Unit
Formerly: SOSC 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in SOSC 34.
1 hour lecture.
A seminar in directed readings, discussions and projects in social science. Specific topics to be determined by the instructor.

SOSC 35 DEPARTMENT HONORS PROJECT IN SOCIAL SCIENCE 1 Unit
SOSC 35X SCIENCE 2 Units
SOSC 35Y 3 Units
SOSC 35Z 4 Units
Any combination of SOSC 35–35Z may be taken a maximum of 6 times for credit.
1 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 Units
SOSC 36X 2 Units
SOSC 36Y 3 Units
SOSC 36Z 4 Units
Any combination of SOSC 36–36Z may be taken for a maximum of 6 units.
1 hour lecture for each unit of credit.
Advanced readings, research, and/or project in social science. Specific topics determined in consultation with instructor.

SOSC 75 TUTOR TRAINING METHODS .5 Unit
Prerequisite: Employment as a tutor; grade of “A” in courses in which the student will be tutoring; letter of recommendation from Foothill instructor in corresponding course.
May be taken 3 times for credit.
.5 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
May be taken 3 times for credit.
3 hours laboratory.
Introduction to theories and methods of effective volunteer participation in community service, including assessing community need, role of the volunteer, relationship with public agencies.

SOSC 155 STANDARDIZED TEST PREPARATION .5 Unit
SOSC 155Z 2 Units
Advisory: Pass/No Pass.
Any combination of SOSC 155 & 155Z may be taken a maximum of 6 times for credit.
.5 hour lecture for each .5 unit of credit.
Test-taking strategies for standardized college entrance tests. Analysis of test structure and content. Identification of areas of weakness; practice with those areas.

SOSC 460 SUPERVISED TUTORING 0 Units
Non-degree applicable credit course.
May be taken six times.
.5 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.

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

SOSC 490 SUPERVISED TUTORING 0 Units
Non-degree applicable credit course.
May be taken six times.
.5 hour lecture, 1.5 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.

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

SOSC 8 POPULAR CULTURE 4 Units
4 hours lecture.
Theoretical and methodological overview of American popular culture. A critical examination of the socio-historical development and contemporary forms of popular culture in America. The relationship of popular culture to individual, group and mass identity formation. Analysis of popular culture and its racial and class dimensions.

SOSC 10 INTRODUCTION TO SOCIAL RESEARCH 4 Units
Advisory: Not open to students with credit in PSYC 10.
4 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.

SOSC 11 INTRODUCTION TO SOCIAL WELFARE 5 Units
5 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.

SOSC 15 LAW & SOCIETY 4 Units
4 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.

SOSC 19 ALCOHOL & DRUG ABUSE 4 Units
4 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.

SOSC 20 MAJOR SOCIAL PROBLEMS 4 Units
4 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]

SOSC 21 PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES 4 Units
Advisory: Not open to students with credit in PSYC 21 or WMN 21.
4 hours lecture.
Survey of gender issues based upon psychological and sociological theories and research. Examination of sex roles stereotyping and differences. Developmental considerations.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
SOC 23 RACE & ETHNIC RELATIONS 4 Units
4 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
Advisory: Not open to students with credit in PSYC 30.
4 hours lecture.
Survey of sociological and psychological theories and research studies examining the influence of society and social groups on the individual and the influence of the individual on society and social groups. Examination of overlapping and differing contents, level of analysis and methodologies. Focus on human interaction and the shaping of diverse and commonly-shared attitudes, beliefs and world views by society, culture and social groups. Assessment of classic and current social psychological studies.

SOC 34H HONORS INSTITUTE SEMINAR IN SOCIOLOGY 1 Unit
Formerly: SOC 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in SOC 34.
1 hour lecture.
A seminar in directed readings, discussions and projects in Sociology. Specific topics to be determined by the instructor.

SOC 35 DEPARTMENT HONORS PROJECTS 1 Unit
SOC 35X IN SOCIOLOGY 2 Units
SOC 35Y 3 Units
SOC 35Z 4 Units
Any combination of SOC 35–35Z may be taken for a maximum of 6 units.
1 hour lecture for each unit of credit.
Seminar in readings, research, critical techniques and practice. Specific topics vary.

SOC 36 SPECIAL PROJECTS IN SOCIOLOGY 1 Unit
SOC 36X 2 Units
SOC 36Y 3 Units
SOC 36Z 4 Units
Any combination of SOC 36–36Z may be taken for a maximum of 6 units.
1 hour lecture for each unit of credit.
Advanced readings, research and/or project in sociology. Specific topics determined in consultation with instructor.

SOC 40 ASPECTS OF MARRIAGE & FAMILY 4 Units
4 hours lecture.
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.

SPANISH
Language Arts
(650) 949-7250
www.foothill.edu/la/

SPAN 1 ELEMENTARY SPANISH 5 Units
5 hours lecture, 2 hours laboratory.
Development and practice of elementary speaking, listening, reading and writing skills in everyday language functions, with Spanish as the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas. [CAN SPAN 1]
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 14A  ADVANCED CONVERSATION I  4 Units
Prerequisite: SPAN 13B.
Advisory: May be taken concurrently with SPAN 5.
4 hours lecture, 1 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.

SPAN 14B  ADVANCED CONVERSATION II  4 Units
Prerequisite: SPAN 14A.
Advisory: May be taken concurrently with SPAN 6.
4 hours lecture, 1 hour laboratory.
Continuation of SPAN 14A. Designed to give students practice in oral/aural 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
Prerequisite: SPAN 6.
4 hours lecture.
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, film and music. Intensive discussion and writing based on these readings to promote a critical appreciation of Hispanic culture, society and history. Understanding of the use of advanced grammar in writing communication. Instruction in Spanish.

SPAN 25B  ADVANCED COMPOSITION & READING  4 Units
Prerequisite: SPAN 25A.
4 hours lecture.
Continuation of SPAN 25A. Extensive reading and analysis of texts with emphasis on literary works such as short stories, essays and poems. Critical analysis of the major political, historical and social issues exposed in these texts. Writing of extended term papers and compositions using advanced grammar. Understanding and appreciating the ambiguities, vagaries and value inherent in the target language. Instruction in Spanish.

SPAN 34H  HONORS INSTITUTE SEMINAR IN SPANISH  1 Unit
Formerly: SPAN 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in SPAN 34.
1 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
SPAN 36X  2 Units
SPAN 36Y  3 Units
SPAN 36Z  4 Units
Prerequisite: SPAN 5.
Advisory: Enrollment for this course is available in the Language Arts Division Office.
1 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
Advisory: Eligibility for ENGL 1A or ESL 26.
4 hours lecture.
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.

SPAN 110  SPANISH LANGUAGE & CULTURE  2.5 Units
2.5 hours lecture, 1 hour laboratory.
Introduction to the Spanish language with an 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.

SPAN 111  PRACTICAL SPANISH  2.5 Units
Advisory: SPAN 110.
2.5 hours lecture, 1 hour laboratory.
Continued practice of spoken and written Spanish with an emphasis on increasing fluency and refining communication. Further development of grammatical foundation to provide basis for continued advanced level study. Presentation of increasingly complex language situations through readings and material on Spanish culture and society.

SPAN 190  DIRECTED STUDY  .5 Unit
SPAN 190X  1 Unit
SPAN 190Y  1.5 Units
SPAN 190Z  2 Units
Non-degree applicable credit course.
Advisory: Pass/No Pass.
Any combination of SPAN 190–190Z may be taken a maximum of 6 times for credit.
.5 hour lecture for each half unit of credit.
For students who desire or require additional help in attaining comprehension and competency in learning skills.

SPECIAL EDUCATION
Adaptive Learning
(650) 949-7332
www.foothill.edu/al/

SPED 50  INTRODUCTION TO ADAPTIVE FITNESS TECHNIQUES  3 Units
2 hours lecture, 3 hours laboratory.
Designed to provide the fitness professional the knowledge necessary to allow the disabled and/or older adult person the opportunity to attain basic functional fitness skills.

SPED 52  INTERGENERATIONAL ADULT HEALTH & DEVELOPMENT  3 Units
May be taken 6 times for credit.
2 hours lecture, 3 hours laboratory.
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
3 hours lecture, 3 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
2 hours lecture, 3 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
2 hours lecture, 3 hours laboratory.
Designed to provide the student with the fundamentals and principles of adaptive fitness. Student will learn to measure and evaluate the current fitness level of physical fitness via various field-based assessment tools. Students will learn functional activities used to improve activities of daily living. Students will develop understanding and skills needed for proper implementation of adaptive fitness education such as range of motion, transfers, and wheelchair management.

SPED 57 WORKING WITH SPECIAL POPULATIONS 3 Units
2 hours lecture, 3 hours laboratory.
Designed to develop effective techniques to meet the learning style of the atypical learner. Focus will be to provide student with skills and strategies to work with special populations. Application of principles through hands-on experience and internships.

SPED 59 SELECTED TOPICS IN SPECIAL EDUCATION 2 Units
May be taken 2 times for credit.
2 hours lecture.
Exploring the field of rehabilitation and special education, including a survey of upper division course work and graduate level degrees. An introduction to the variety of careers working with special populations in a variety of settings, including education, industry and non-profit organizations. Course will include a forum of guest speakers, field practicum and research project.

SPED 61 INTRODUCTION TO DISABILITIES 4 Units
Advisory: Eligibility for ENGL 1A.
4 hours lecture.
Overview of all major categories and characteristics of disabilities. Physical, Sensory, Developmental and Learning Disabilities discussed. Cultural/ experiential aspects of disabilities from the perspectives of disabled individuals explored through readings and guest speakers. Contrasts disabled with non-disabled culture including cross-cultural perspectives of the disabled experience. Emphasis placed on recognition of strengths and abilities to provide strategies for instruction and accommodations.

SPED 62 PSYCHOLOGICAL ASPECTS OF DISABILITY 4 Units
4 hours lecture.
Psychological aspects of disability, including psychosocial, cultural, and physical considerations of disability and illness.

SPED 63 LEARNING DISABILITIES 4 Units
4 hours lecture.
Focuses on the field of learning disabilities in terms of function of the information processing system for learning theories and practices that have influenced the field. Explores best practices for effective instruction for people with learning disabilities.

SPED 64 DISABILITY & THE LAW 4 Units
4 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.
4 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
4 hours lecture.
Philosophy, legal requirements, design and use of accessible technology.

SPED 67 ADAPTIVE FITNESS DIRECTED STUDY 1 Unit
2 hours lecture.
Any combination of SPED 67–67Y may be taken a maximum of 6 times for credit.
3 hours laboratory for each unit of credit.
Designed to provide the Adaptive Fitness Technician student an opportunity to augment skills, experience and knowledge base through additional specialized work experience, directed readings, and/or by viewing instructional videos. The student will have the opportunity to work independently to increase their knowledge base and understanding of a variety of chronic medical conditions as related to fitness.

SPED 67X ADAPTIVE FITNESS DIRECTED STUDY 2 Units
3 hours laboratory.
SPED 67Y ADAPTIVE FITNESS DIRECTED STUDY 3 Units
Any combination of SPED 67–67Y may be taken a maximum of 6 times for credit.
3 hours laboratory for each unit of credit.
Designed to provide the Adaptive Fitness Technician student an opportunity to augment skills, experience and knowledge base through additional specialized work experience, directed readings, and/or by viewing instructional videos. The student will have the opportunity to work independently to increase their knowledge base and understanding of a variety of chronic medical conditions as related to fitness.

SPED 69 SPECIAL EDUCATION STRATEGIES & PRACTICUM 4 Units
3 hours lecture, 3 hours laboratory.
An overview of the field of special education. Focuses on components of instruction for students with disabilities. Field work activity required.

SPED 70 INTRODUCTION TO AQUA FITNESS PRINCIPLES 3 Units
May be taken 6 times for credit.
2 hours lecture, 3 hours laboratory.
Designed to develop an understanding of the water training principles, water equipment, injury prevention, teaching techniques, deep and shallow water fitness routines, and business strategies. Also, included in this course are special populations, anatomy and biomechanics, and adapted fitness assessments.

SPED 71 SPECIAL TOPICS IN THE FIELD OF FITNESS THERAPY 3 Units
2 hours lecture, 3 hours laboratory.
Designed to provide the Adaptive Fitness Technician student an opportunity to augment skills, experience and knowledge base through additional specialized short course. Practical work experience, directed readings, and/or 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 72 STRESS, WELLNESS & COPING 3 Units
3 hours lecture.
Explore and become familiar with symptoms of stress, depression, and anxiety. Examine the social and psychological factors that contribute to these problems and the patterns of behavior which result. Learn, utilize, and understand effective coping strategies to promote self-awareness, personal wellness, and academic success and model these strategies for members of the community. Emphasis placed on mental health and application of self-help skills.

SPED 73 INTRODUCTION TO AQUATIC EXERCISE 3 Units
3 hours lecture.
This course provides foundation information for water exercise instruction. The course includes essential anatomy, physiology, kinesiology and aquatic principles. Successful completion of this class will prepare the student to apply for the Aquatic Exercise Association Certification.

SPED 74 PRINCIPLES OF ADAPTED AQUA FITNESS 3 Units
2 hours lecture, 3 hours laboratory.
This course provides the essential information needed to provide adapted aquatics exercise instruction. The student will develop an understanding of how water training principles can be used with individuals with chronic conditions, adaptive teaching techniques will be addressed, and the application of deep and shallow water fitness routines for the disabled will be explored. Additionally, techniques of how to assist a disabled client to enter and exit a pool safely will be demonstrated.

SPED 75 INTERNSHIP IN ADAPTIVE AQUATICS 3 Units
May be taken 2 times for credit.
2 hours lecture, 3 hours laboratory.
The internship is designed to provide the adapted aquatics trainee with hands-on skills and experience with clients. The internship will include performing client assessments and receiving feedback from lead teachers.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
THTR 1 THEATRE ARTS APPRECIATION  4 Units
Formerly: DRAM 1  
Advisory: Not open to students with credit in DRAM 1.  
4 hours lecture, 1 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.

THTR 2A INTRODUCTION TO DRAMATIC LITERATURE  4 Units
Formerly: DRAM 2A  
Prerequisite: Eligibility for ENGL 1A.  
Advisory: Not open to students with credit in ENGL 42A or DRAM 2A.  
4 hours lecture.  
Analysis of representative masterpieces of dramatic literature from Aeschylus to the English Renaissance Period and including Asian Theatre.

THTR 2B INTRODUCTION TO DRAMATIC LITERATURE  4 Units
Formerly: DRAM 2B  
Prerequisite: Eligibility for ENGL 1A.  
Advisory: Not open to students with credit in ENGL 42B or DRAM 2B.  
4 hours lecture.  
Analysis of representative masterpieces of dramatic literature from the Elizabethan Period to the end of the 19th Century.

THTR 2C INTRODUCTION TO DRAMATIC LITERATURE  4 Units
Formerly: DRAM 2C  
Prerequisite: Eligibility for ENGL 1A.  
Advisory: Not open to students with credit in ENGL 42C or DRAM 2C.  
4 hours lecture.  
Analysis of representative masterpieces of dramatic literature from the beginning of the 20th Century to the present.

THTR 5B PLAYWRITING  4 Units
Formerly: DRAM 5B, DRAM 55B  
Prerequisite: ENGL 1A eligible.  
Advisory: Not open to students with credit in VART 5B or CRWR 36B or DRAM 5B or DRAM 55B.  
4 hours lecture, 1 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.

THTR 6 ADVANCED PLAYWRITING  4 Units
Formerly: DRAM 6  
Prerequisite: THTR 5B.  
4 hours lecture, 1 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.

THTR 7 INTRODUCTION TO DIRECTING  4 Units
Formerly: DRAM 7  
May be taken 3 times for credit.  
3 hours lecture, 3 hours laboratory.  
The qualifications of the director; the choice of plays for production; auditions and methods of casting; preparation of the play script; building the rehearsal schedule; fundamentals of composition, movement, state business and characterization as applied to the directing of plays.

THTR 8 MULTICULTURAL MOSAIC OF PERFORMING ARTS IN AMERICA  4 Units
Formerly: DRAM 8  
Advisory: Not open to students with credit in DRAM 8.  
4 hours lecture, 1 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.

THTR 20A BEGINNING ACTING  3 Units
Formerly: DRAM 20A  
Advisory: Concurrent enrollment in THTR 20AL recommended; students taking this course to satisfy A.A. degree and the transfer general education requirement in humanities must concurrently enroll in THTR 20AL. Not open to students with credit in DRAM 20A.  
6 hours lecture-laboratory.  
Introduction to the craft of acting, including theory and technique emphasizing body movement, voice production, articulation, characterization principles of motivation, scene analysis, through standard theatre games, exercises, monologues, and scenes.

THTR 20B INTERMEDIATE ACTING  3 Units
Formerly: DRAM 20B  
Prerequisite: THTR 20A.  
Advisory: Students taking this course to satisfy A.A. degree and the transfer general education requirement in humanities must concurrently enroll in THTR 20BL; not open to students with credit in DRAM 20B; concurrent enrollment in THTR 20BL recommended.  
6 hours lecture-laboratory.  
Further development of concepts introduced in THTR 20A, emphasizing improvisation and theatre games.

THTR 20BL ACTING LABORATORY  1 Unit
Formerly: DRAM 20BL  
Advisory: Not open to students with credit in DRAM 20BL.  
Corequisite: Concurrent enrollment in THTR 20B.  
3 hours laboratory.  
Supervised study and rehearsal in acting projects. Three hours supervised practice.

THTR 20C ADVANCED ACTING I  3 Units
Formerly: DRAM 20C  
Prerequisite: THTR 20A and 20B.  
Advisory: Concurrent enrollment in THTR 20CL recommended. Students taking this course to satisfy A.A. degree and the transfer general education requirement in humanities must concurrently enroll in THTR 20CL. Not open to students with credit in DRAM 20CL.  
6 hours lecture-laboratory.  
Further development of concepts introduced in Drama 20A and 20B with focus on the performance of selected scenes from plays of various classical periods to acquaint students with the breadth of theatre performance literature.

THTR 20CL ACTING LABORATORY  1 Unit
Formerly: DRAM 20CL  
Advisory: Not open to students with credit in DRAM 20CL.  
Corequisite: Concurrent enrollment in THTR 20C.  
3 hours laboratory.  
Supervised study and rehearsal in acting projects. Three hours supervised practice.
THTR 20D  ADVANCED ACTING II  3 Units
Formerly: DRAM 20D
Prerequisite: THTR 20A, 20B and 20C.
Advisory: Concurrent enrollment in THTR 20DL recommended. Students taking this course to satisfy A.A. degree and the transfer general education requirement in humanities must concurrently enroll in THTR 20DL. Not open to students with credit in DRAM 20D. 6 hours lecture-laboratory.
Further development of the concepts introduced in THTR 20A, 20B and 20C with focused exploration and examination of a selected specific area, genre or period style.

THTR 20DL  ACTING LABORATORY  1 Unit
Formerly: DRAM 20DL
Advisory: Not open to students with credit in DRAM 20DL.
Corequisite: Concurrent enrollment in THTR 20D.
3 hours laboratory,
Supervised study and rehearsal in acting projects. Three hours supervised practice.

THTR 20E  ADVANCED ACTING III  3 Units
Formerly: DRAM 20E
Prerequisite: THTR 20A or 20B.
May be taken 6 times for credit.
6 hours lecture-laboratory.
Further development of concepts introduced in THTR 20A with performance of specific scenes designed to introduce students to a range of dramatic challenges, coupled with ongoing work in improvisation.

THTR 20EL  ACTING LABORATORY  1 Unit
Formerly: DRAM 20EL
Corequisite: Concurrent enrollment in THTR 20E.
May be taken 6 times for credit.
3 hours laboratory,
Supervised study and rehearsal in acting projects. Three hours supervised practice.

THTR 21  INTRODUCTION TO TECHNICAL THEATRE  1 Unit
Formerly: DRAM 21
Advisory: Concurrent enrollment in THTR 21A recommended; not open to students with credit in DRAM 21.
1 hour lecture.
An introduction to the theory and techniques used in the production of scenery, properties, lighting, costumes and sound for stage, film and television.

THTR 21A  SCENERY & PROPERTIES CONSTRUCTION  3 Units
Formerly: DRAM 21A
Advisory: Not open to students with credit in DRAM 21A.
Corequisite: Concurrent enrollment in THTR 21.
6 hours lecture-laboratory.
Practical experience in creating and using scenery and properties for department dramatic presentations. Safe use of basic hand and power tools used in the construction of scenery and properties for the stage.

THTR 21B  INTERMEDIATE SCENERY & PROPERTY CONSTRUCTION  3 Units
Formerly: DRAM 21B
Advisory: Not open to students with credit in DRAM 21B.
Corequisite: Concurrent enrollment in THTR 21A.
6 hours lecture-laboratory.
Continuation of THTR 21A. Practical experience in creating and using scenery and properties for department dramatic presentations. Safe use of basic hand and power tools used in the construction of scenery and properties for the stage.

THTR 21C  ADVANCED SCENERY & PROPERTIES CONSTRUCTION  3 Units
Formerly: DRAM 21C
Prerequisite: THTR 21B.
May be taken 4 times for credit.
6 hours lecture-laboratory.
Continuation of THTR 21B. Practical experience in creating and using scenery and properties for department dramatic presentations. Safe use of tools, materials, rigging and construction techniques used in the construction of scenery and properties for the stage.

THTR 21D  CONSERVATORY THEATRE PRODUCTION  1 Unit
Formerly: DRAM 21D
Maybe taken 6 times for credit.
2 hours lecture-laboratory.
Introduction to the theory and practice of play production: planning, design, execution, rehearsal and management. Practical experience in staging dramatic presentations, including the use of theatre equipment, set construction, painting, properties, costumes, lighting, theatre management and publicity.

THTR 24  READERS THEATRE  4 Units
Formerly: DRAM 24
Advisory: Not open to students with credit in COMM 24.
May be taken 6 times for credit.
3 hours lecture, 3 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.

THTR 34H  HONORS INSTITUTE SEMINAR IN THEATRE ARTS  1 Unit
Formerly: DRAM 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in DRAM 34.
1 hour lecture.
A seminar in directed readings, discussions and projects in theatre arts.

THTR 35  DEPARTMENT HONORS PROJECTS IN DRAMA  2 Units
Formerly: DRAM 35
Prerequisite: Audition/interview with instructor.
May be taken 6 times for credit.
7 hours laboratory.
Individual advanced projects in acting, theatre production, stage craft, design or theatre research.

THTR 38  MOVEMENT PRACTICUM FOR THE ACTOR  2 Units
Formerly: DRAM 38
Prerequisite: Completion of, or concurrent enrollment in the Foothill Theatre Conservatory.
May be taken 6 times for credit.
1.5 hours lecture, 1.5 hours laboratory.
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.

THTR 40A  BASIC THEATRAL MAKE-UP  4 Units
Formerly: DRAM 40A
Advisory: Not open to students with credit in DRAM 40A.
3 hours lecture, 3 hours laboratory.
A practical introduction to the techniques of applying theatrical make-up for the stage.

THTR 40AL  THEATRICAL MAKE-UP LABORATORY  1 Unit
Formerly: DRAM 40AL
Prerequisite: THTR 40A.
Advisory: Not open to students with credit in DRAM 40AL.
Corequisite: Concurrent enrollment in THTR 40A.
3 hours laboratory.
Supervised study and practice in stage make-up and application techniques.

THTR 40B  THEATRICAL MAKE-UP FOR PRODUCTION  4 Units
Formerly: DRAM 40B
Prerequisite: THTR 40A.
May be taken 2 times for credit.
3 hours lecture, 3 hours laboratory.
Continuation of work in THTR 40A with emphasis in practical experience for the stage.

THTR 40BL  THEATRICAL MAKE-UP LABORATORY  1 Unit
Formerly: DRAM 40BL
Advisory: Not open to students with credit in DRAM 40B.
Corequisite: Concurrent enrollment in THTR 40B.
3 hours laboratory.
Supervised study and practice in stage make-up and application techniques.
THTR 42A INTRODUCTION TO SCENE DESIGN 4 Units
Formerly: DRAM 42A
Prerequisite: THTR 72 or equivalent.
Advisory: Not open to students with credit in DRAM 42A.
3 hours lecture, 3 hours laboratory.
Theory and practice of three dimensional scene design and scenic painting using traditional and digital tools. Includes research and analysis; two-dimensional and three-dimensional set design; theatrical sketching, drafting, rendering and model making and the use of computer graphics software and equipment to create three-dimensional design for Performing Arts, Film, TV and Multimedia CD ROM and WWW.

THTR 42B INTERMEDIATE SCENE DESIGN 4 Units
Formerly: DRAM 42B
Prerequisite: THTR 42A.
Advisory: Not open to students with credit in DRAM 42B.
3 hours lecture, 3 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.

THTR 42C ADVANCED SCENE DESIGN 4 Units
Formerly: DRAM 42C
Prerequisite: THTR 42C.
Advisory: Not open to students with credit in DRAM 42C.
3 hours lecture, 3 hours laboratory.
The theory and practice of complex scene design and scenic painting for theatre, opera, and ballet. Includes advanced script research and analysis for complex set design; theatrical sketching, drafting, rendering and model making and the use of computer graphics software and equipment to design multiple set scenery.

THTR 44 PRODUCTION PROJECTS 5 Units
Formerly: DRAM 44
Prerequisite: THTR 20A.
May be taken 6 times for credit.
4 hours lecture, 4 hours laboratory.
An intensive training experience in all areas of theatre, culminating in a practical theatre production. Areas of study and investigation include acting techniques, voice and diction, oral interpretation, movement and dance, theatre literature and history, stage management and other technologies related to the actor. Culminates in a full-scale production, and students take charge of all areas of production.

THTR 46 VOICE & DICTION 4 Units
Formerly: DRAM 46
Prerequisite: THTR 20A.
Advisory: Not open to students with credit in COMM 46 or DRAM 46.
3 hours lecture, 3 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.

THTR 47 SUMMER MUSICAL: DRAMA WORKSHOP 3 Units
THTR 47X 5.5 Units
THTR 47Y 10 Units
Formerly: DRAM 47
Any combination of THTR 47–47Y may be taken a maximum of 6 times for credit.
3 hours laboratory for each unit of credit.
A laboratory course in musical theatre stage production. Acting, singing, dance, lighting, costuming, scene design, properties, set-construction, make-up, publicity and promotion will be studied in the production of a full-scale major musical play for public performance.

THTR 48 VOICE PRACTICUM FOR THE ACTOR 2 Units
Formerly: DRAM 48
Prerequisite: Completion of, or concurrent enrollment in the Foothill Theatre Conservatory.
May be taken 6 times for credit.
1.5 hours lecture, 1.5 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.

THTR 49 REHEARSAL & PERFORMANCE 2 Units
THTR 49Y 6 Units
THTR 49Z 8 Units
Formerly: DRAM 49,Y,Z
Any combination of THTR 49–49Y may be taken for a maximum of 48 units
3 hours lecture-laboratory, 2 hours laboratory for two units of credit.
Supervised participation in scheduled productions of the Drama Department, in cast or crew. Enrollment in each course is for the duration of the production.

THTR 50 PRODUCTION PROJECTS IN THEATRE 2 Units
Formerly: DRAM 50
May be taken 6 times for credit.
1 hour lecture-laboratory, 5 hours laboratory.
This course teaches the full development of an organic, original production from inception to performance. Under the guidance and supervision of the instructor who initiates the process, students will be entirely charged to produce a full-length production consisting of several student-generated short plays. Student responsibilities will extend to the areas of writing, acting, directing, lighting design, costume design, scenery and properties design, sound design, make-up design and publicity. The quarter culminates with several public performances.

THTR 53 AUDITIONING FOR THEATRE 2 Units
Formerly: DRAM 53
Prerequisite: Completion of, or concurrent enrollment in THTR 20A.
May be taken 6 times for credit.
1.5 hours lecture, 1.5 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.

THTR 54 ACTOR’S WORKSHOP 4 Units
Formerly: DRAM 54
Prerequisite: THTR 20C.
May be taken 6 times for credit.
3 hours lecture, 3 hours laboratory.
Further development of concepts introduced in THTR 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.

THTR 55 MOVEMENT FOR THE ACTOR: STAGE COMBAT 1 Unit
Formerly: DRAM 55
May be taken 2 times for credit.
Three-quarters of an hour lecture, three-quarters of an hour laboratory.
Introduction to the concepts and practice of choreographed combat for stage and camera. Emphasis on safety concepts required for all stage combat circumstances. Techniques introduced include hand to hand maneuvers and small weapons.

THTR 56 THE THEATRE LIVE ON-STAGE 3 Units
Formerly: DRAM 61
May be taken 6 times for credit.
2 hours lecture, 4 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.

THTR 57 ACTING FOR FILM & TELEVISION 2 Units
Formerly: DRAM 62
Prerequisite: THTR 20A.
May be taken 6 times for credit.
1.5 hours lecture, 1.5 hours laboratory.
Application of concepts introduced in THTR 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>THTR 71</td>
<td>FUNDAMENTALS OF STAGE MANAGEMENT</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 71</td>
<td>Advisory: THTR 20A or concurrent enrollment in THTR 21A, 21B, or 21C. Not open to students with credit in DRAM 71.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 hours lecture.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>An introduction to stage management techniques in form and function for the theatre.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fundamentals of stage management procedures related to the rehearsal process. Practices in production administration through the use of stage management forms.</td>
<td></td>
</tr>
<tr>
<td>THTR 72</td>
<td>DRAFTING FOR THE THEATRE, FILM &amp; TELEVISION</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 72</td>
<td>May be taken 3 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>THTR 72A</td>
<td>DRAFTING FOR THE THEATRE, FILM &amp; TELEVISION</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 72</td>
<td>Advisory: Not open to students with credit in DRAM 72.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Survey of computer 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. Introduction of computer technology to draft designs.</td>
<td></td>
</tr>
<tr>
<td>THTR 72B</td>
<td>BEGINNING CAD DRAFTING FOR THE THEATRE, FILM &amp; TELEVISION</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 72</td>
<td>Advisory: Not open to students with credit in DRAM 72.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Survey of computer 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 computer technology to present ground plans, elevations and working drawings for theatre designs.</td>
<td></td>
</tr>
<tr>
<td>THTR 72C</td>
<td>3D COMPUTER DRAFTING FOR THE THEATRE, FILM &amp; TELEVISION</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 72</td>
<td>Prerequisite: THTR 72B or experience with computer drafting programs. Advisory: Not open to students with credit in DRAM 7.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>An advanced course in three dimensional computer drafting techniques used in the theatre, film and television. The basic elements of three dimensional computer techniques used in presenting stage designs for designers and technicians working in the performing arts. Use of Vectorworks and Sketch Up to present three-dimensional virtual models of theatre designs for design development and presentation.</td>
<td></td>
</tr>
<tr>
<td>THTR 73</td>
<td>SCENERY PROJECTS IN FABRIC &amp; WOOD</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 73</td>
<td>Prerequisite: Completion of, or concurrent enrollment in THTR 21A, B, or C. Advisory: Not open to students with credit in DRAM 73.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td>THTR 74</td>
<td>THEATRE SOUND DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 74</td>
<td>Prerequisite: Completion of, or concurrent enrollment in THTR 21A, B, or C. Advisory: Not open to students with credit in DRAM 74.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>THTR 75</td>
<td>INTRODUCTION TO FASHION &amp; COSTUME CONSTRUCTION</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 75</td>
<td>Advisory: Completion of, or concurrent enrollment in THTR 21A, 21B or 21C. May be taken 3 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 2 hours lecture-laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>An introduction to sewing techniques, pattern cutting, costume room equipment and the design and fabrication of clothing and also for costumes for the theatre and stage.</td>
<td></td>
</tr>
<tr>
<td>THTR 76</td>
<td>INTRODUCTION TO FASHION &amp; COSTUME DESIGN</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 76</td>
<td>Advisory: Not open to students with credit in DRAM 76.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 hours lecture.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A survey of western historic fashion and costume for women and men from ancient times to the present, including the cultural and political events that shaped each era and its clothing. An introduction to the design elements: color, line, form texture and silhouette and a brief introduction to the use of graphic techniques in the presentation of fashion and costume designs. Analysis of the artistic styles of each era as they relate to understanding costume detail and stylization.</td>
<td></td>
</tr>
<tr>
<td>THTR 77</td>
<td>INTRODUCTION TO LIGHTING DESIGN &amp; TECHNOLOGY</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 77</td>
<td>Prerequisite: Completion of, or concurrent enrollment in THTR 21A, B, or C. May be taken 3 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>THTR 78</td>
<td>THEATRE TECHNOLOGY IN METAL</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 78</td>
<td>Prerequisite: Completion of, or concurrent enrollment in THTR 21A, B, or C. Advisory: Not open to students with credit in DRAM 78.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>THTR 79</td>
<td>MODEL BUILDING FOR THEATRE, FILM &amp; TELEVISION</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 79</td>
<td>Advisory: Not open to students with credit in DRAM 79.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 3 hours laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>THTR 80</td>
<td>RECORDING ARTS I: SOUND REINFORCEMENT</td>
<td>4</td>
</tr>
<tr>
<td>Formerly: DRAM 80</td>
<td>Advisory: Not open to students with credit in MUS 80 or 80A or DRAM 80.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A survey of model building techniques for the theatre, film and television. 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.</td>
<td></td>
</tr>
</tbody>
</table>
THTR 81  CONTEMPORARY ISSUES IN THEATRE  1 Unit

Formerly: DRAM 81
Corequisite: Concurrent Enrollment in the Foothill Theatre Conservatory.
May be taken 6 times for credit.
1 hour lecture, .5 hour laboratory.
A seminar in directed readings, discussions, performance analysis and projects
encompassing contemporary performance trends and the business of the
entertainment industry. Specific topics to be determined by the instructor.

THTR 85  DIRECTED FIELD STUDY IN THEATRE  1 Unit
THTR 85X  2 Units
THTR 85Y  3 Units
THTR 85Z  4 Units

Formerly: DRAM 85
Advisory: Pass/No Pass.
Any combination of THTR 85–85Z may be taken for up to 24 units of credit.
.5 hour lecture, 1 hour lecture-laboratory for each unit of credit.
In-depth, intensive field study experience in a selected major center of theatrical
production, such as London or New York. Attendance at professional theatre
productions; meeting with playwrights, directors, designers, choreographers, actors
and critics; touring backstage facilities, costume and scenic studios, and theatrical
history museums and exhibits. All costs are borne by the student.

THTR 95  DRAMA SUMMER STOCK WORKSHOP  3 Units
THTR 95X  5.5 Units

Formerly: DRAM 95
Any combination of THTR 95 & 95X may be taken a maximum of 6 times for credit.
12 hours laboratory for 3 units of credit.
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.

THTR 97  ACTORS’ ENSEMBLE  1 Unit
THTR 97X  2 Units
THTR 97Y  3 Units
THTR 97Z  4 Units

Formerly: DRAM 97
Advisory: Pass/No Pass.
Any combination of THTR 97–97Z may be taken for a maximum of 24 units.
4 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.

THTR 99  THEATRE WORKSHOP  3 Units
THTR 99X  5 Units
THTR 99Y  10 Units

Formerly: DRAM 99
Advisory: Pass/No Pass.
Any combination of THTR 99–99Y may be taken for a maximum of 33 units.
10 hours laboratory for ___ units 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
performance produced for a public audience.

THTR 10  DIRECTED STUDY  .5 Unit
THTR 10X  1 Unit
THTR 10Y  1.5 Units
THTR 10Z  2 Units

Formerly: DRAM 10
Any combination of DRAM 10–10Z may be taken a maximum of 6 times for credit.
.5 hour lecture, 3.5 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.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>T C 60</td>
<td>TRAVEL ONLINE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to using two powerful tools: the Internet and SABRE, a professional airline reservation system. Designed for travel careers majors, as well as savvy travelers. Hands-on experience offered in the on-campus Travel Careers Computer Training Center.</td>
<td></td>
</tr>
<tr>
<td>T C 62A</td>
<td>CREATING TRAVEL RESERVATIONS: BASIC</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>4 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Selling travel by booking passengers using the Internet and SABRE systems. Reading flight schedules, making airline reservations, quoting costs of bookings. Instruction offered in the Travel Careers Computer Training Center.</td>
<td></td>
</tr>
<tr>
<td>T C 62B</td>
<td>CREATING TRAVEL RESERVATIONS: ADVANCED</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Advisory: T C 62A recommended.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Continuation of T C 62A. Extensive practice in selling travel on the SABRE system and through the Internet. Booking hotels, cars, and other components of an itinerary. Instruction offered in the Travel Careers Computer Training Center.</td>
<td></td>
</tr>
<tr>
<td>T C 64</td>
<td>AIR TICKETING: NORTH AMERICA</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2 hours lecture, 1 hour lecture-laboratory, 3 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to the various domestic airline fares and rules. Instruction offered in the Travel Careers Computer Training Center.</td>
<td></td>
</tr>
<tr>
<td>T C 65</td>
<td>AIR TICKETING: INTERNATIONAL</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2 hours lecture, 1 hour lecture-laboratory, 3 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Employing international airline rules, the mileage principle, Neutral Units of Construction, and consolidator fares in planning worldwide air itineraries. Instruction offered in the Travel Careers Computer Training Center.</td>
<td></td>
</tr>
<tr>
<td>T C 67</td>
<td>BUSINESS TRAVEL RESERVATIONS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Advisory: T C 62B recommended.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Intensive use of the SABRE system and Internet. Developing speed and accuracy in creating business travel reservations for both domestic and international destinations. Instruction offered in the Travel Careers Computer Training Center.</td>
<td></td>
</tr>
<tr>
<td>T C 68</td>
<td>LEISURE TRAVEL RESERVATIONS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Advisory: T C 54 and 62B.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 hours lecture-laboratory, 2 hours laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Using the Internet and SABRE formats to create leisure itineraries. Practice with sales techniques. Instruction offered in the Travel Careers Computer Training Center.</td>
<td></td>
</tr>
<tr>
<td>T C 70</td>
<td>SPECIAL WORLDWIDE DESTINATIONS</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>4 hours lecture, 1 hour laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Searches for extraordinary places that are less visited. Probes into their unique geographical, historical, political, ecological, and cultural features. Sales techniques and industry resources useful in designing itineraries for fresh touristic journeys. Emphasis upon travelers with special interests.</td>
<td></td>
</tr>
<tr>
<td>T C 74</td>
<td>TOUR DIRECTING</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 1 hour laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Preparation for leading and managing both domestic and international tour groups. Opportunity to participate in a local motorcoach tour.</td>
<td></td>
</tr>
<tr>
<td>T C 75</td>
<td>OPERATING WHOLESALE TOURS</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Advisory: T C 58 recommended.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 1 hour laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Advanced study of the tour operator at work. Planning and pricing a tour, negotiating with suppliers, and producing a brochure that sells. Procedures for starting a tour company.</td>
<td></td>
</tr>
<tr>
<td>T C 77</td>
<td>PRODUCT KNOWLEDGE: A CRITICAL SALES TOOL</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>3 hours lecture, 1 hour laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Introduction to a variety of travel products and providers including tour operators, wholesale packagers, niche cruise lines, and travel insurance options.</td>
<td></td>
</tr>
<tr>
<td>T C 78</td>
<td>MANAGING A TRAVEL BUSINESS</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>2 hours lecture, 1 hour laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Organizing and managing your own travel business, either home-based or in an agency. Survey of industry regulations and resources, employee recruitment and training, accounting and automation, financial planning, marketing and other management techniques.</td>
<td></td>
</tr>
<tr>
<td>T C 79A</td>
<td>TOURISM SEMINAR SERIES: SALES &amp; SERVICE</td>
<td>.5</td>
</tr>
<tr>
<td></td>
<td>May be taken 6 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One six-hour lecture.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Successful strategies to enhance the travel professional's expertise in selling the world. Emphasis will be given to increasing sales through exceptional customer service.</td>
<td></td>
</tr>
<tr>
<td>T C 79B</td>
<td>TOURISM SEMINAR SERIES: HIGH-TECH TRAVEL</td>
<td>.5</td>
</tr>
<tr>
<td></td>
<td>May be taken 6 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One six-hour lecture.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Using cutting-edge technology to enhance the travel professional's expertise in selling the world.</td>
<td></td>
</tr>
<tr>
<td>T C 79C</td>
<td>TOURISM SEMINAR SERIES: PROFESSIONAL DEVELOPMENT</td>
<td>.5</td>
</tr>
<tr>
<td></td>
<td>May be taken 6 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One six-hour lecture.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exploring current topics and trends within the travel industry to enhance the professional's expertise and ability to compete in today's global village.</td>
<td></td>
</tr>
<tr>
<td>T C 79D</td>
<td>TOURISM SEMINAR SERIES: DESTINATIONS IN DEPTH</td>
<td>.5</td>
</tr>
<tr>
<td></td>
<td>May be taken 6 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One six-hour lecture.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exploring one area of the world to enhance the travel professional's expertise in selling the product.</td>
<td></td>
</tr>
<tr>
<td>T C 79E</td>
<td>TOURISM SEMINAR SERIES: MARKETING THE TRAVEL PRODUCT</td>
<td>.5</td>
</tr>
<tr>
<td></td>
<td>May be taken 6 times for credit.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One six-hour lecture.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Relevant topics to enhance the travel professional's expertise. Exploring unique opportunities to increase profits and build market share.</td>
<td></td>
</tr>
<tr>
<td>T C 81A</td>
<td>DESTINATION SPECIALIST SERIES: CHINA</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1 hour lecture, 1 hour laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>T C 81B</td>
<td>DESTINATION SPECIALIST SERIES: HAWAI I</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1 hour lecture, 1 hour laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Destination Specialist course from The Travel Institute. Provides in-depth knowledge of geographical, historical, and cultural features of Hawaii. Emphasis on professional sales techniques, qualifying the client and useful industry resources.</td>
<td></td>
</tr>
<tr>
<td>T C 81C</td>
<td>DESTINATION SPECIALIST SERIES: ALASKA</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1 hour lecture, 1 hour laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>T C 81D</td>
<td>DESTINATION SPECIALIST SERIES: SPAIN</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1 hour lecture, 1 hour laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>T C 81E</td>
<td>DESTINATION SPECIALIST SERIES: FRANCE</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>1 hour lecture, 1 hour laboratory.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  [www.foothill.edu](http://www.foothill.edu)
T C 81M  DESTINATION SPECIALIST SERIES: MEXICO  1 Unit
1 hour lecture, 1 hour laboratory.
Destination Specialist course from The Travel Institute. In-depth study of
geographical, historical, political, and cultural features of Mexico, highlighting
major tourism areas. Emphasis on professional sales strategies and techniques,
suggested itineraries, and useful industry resources.

T C 82A  DESTINATION SPECIALIST SERIES: CARIBBEAN  2 Units
2 hours lecture, 1 hour laboratory.
Destination Specialist course from the Travel Institute. Provides in-depth knowledge
of geographical, historical, and cultural features of the Caribbean, highlighting
major tourism areas. Emphasis on professional sales techniques.

T C 82B  DESTINATION SPECIALIST SERIES: EAST ASIA  2 Units
2 hours lecture, 1 hour laboratory.
Destination Specialist course from the Travel Institute. Provides in-depth knowledge
of geographical, historical, and cultural features of East Asia, highlighting major
tourism areas. Emphasis on professional sales techniques.

T C 82C  DESTINATION SPECIALIST SERIES: EASTERN EUROPE  2 Units
2 hours lecture, 1 hour laboratory.
Destination Specialist course from the Travel Institute. Provides in-depth knowledge
of geographical, historical, political, and cultural features of various countries of
Eastern Europe, highlighting major tourism areas. Emphasis on professional
sales techniques.

T C 82D  DESTINATION SPECIALIST SERIES: SOUTH PACIFIC  2 Units
2 hours lecture, 1 hour laboratory.
Destination Specialist course from the Travel Institute. Provides in-depth knowledge
of geographical, historical, and cultural features of Australia, New Zealand,
and various islands in Micronesia, Melanesia, and Polynesia, highlighting major
tourism areas. Emphasis on professional sales techniques.

T C 82E  DESTINATION SPECIALIST SERIES: SOUTHERN EUROPE  2 Units
2 hours lecture, 1 hour laboratory.
Destination Specialist course from The Travel Institute. Provides 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 83A  DESTINATION SPECIALIST SERIES: AFRICA  3 Units
3 hours lecture, 1 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 83B  DESTINATION SPECIALIST SERIES: LATIN AMERICA  3 Units
3 hours lecture, 1 hour laboratory.
Destination Specialist Program from the Travel Institute. Provides in-depth knowledge
of geographical, historical, and cultural features of Latin America, highlighting
major tourism areas. Emphasis on professional sales techniques, qualifying the
client and useful industry resources.

T C 83C  DESTINATION SPECIALIST SERIES: NORTH AMERICA  3 Units
3 hours lecture, 1 hour laboratory.
Destination Specialist course from the Travel Institute. Provides in-depth knowledge
of geographical, historical, and cultural features of the United States and Canada,
highlighting major tourism areas. Emphasis on professional sales techniques,
qualifying the client and useful industry resources.

T C 83D  DESTINATION SPECIALIST SERIES: WESTERN EUROPE  3 Units
3 hours lecture, 1 hour laboratory.
Destination Specialist course from the Institute of Certified Travel Agents. Provides
in-depth knowledge of geographical, historical, political, and cultural features of
various countries in Western Europe, highlighting major tourism areas. Emphasis
on professional sales techniques.

T C 83E  DESTINATION SPECIALIST: NORTHERN & CENTRAL EUROPE  3 Units
3 hours lecture, 1 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 92  TRAVEL CAREERS TUTOR TRAINING  1 Unit
T C 92X  1 Unit
T C 92Y  1.5 Units
T C 92Z  2 Units
Prerequisite: Permission of Program Coordinator.
Advisory: Pass/No Pass.
Any combination of T C 92–92Y may be taken for a maximum of 6 units.
3 hours laboratory for each unit of credit.
Practice in individual tutoring under instructional supervision.

T C 100  OPEN COMPUTER LABORATORY  .5 Unit
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 100–100Z may be taken for a maximum of 6 times for credit.
1.5 hours laboratory for each .5 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 190–190Z may be taken for a maximum of 6 times for credit.
1 hour lecture, 1.5 hours laboratory.
For students who desire or require additional help in attaining comprehension and
competency in learning skills.

VETERINARY TECHNOLOGY

Biological & Health Sciences    (650) 949-7203
www.foothill.edu/bio/programs/vettech/

V T 50  CURRENT TOPICS IN VETERINARY TECHNOLOGY  .5 Unit
Advisory: Pass/No Pass
May be taken 6 times for credit.
1 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
1 hour lecture, 2 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version
of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu
V T 52A VETERINARY ASSISTING I 5 Units
5 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 on-line and may be taken as a stand-alone class or may be combined with VT52B and a Clinical Preceptorship (VT57A & B) to earn a Veterinary Assisting Program Certificate of Completion.

V T 52B VETERINARY ASSISTING II 5 Units
5 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 record keeping and client communication. The course is entirely on-line and may be taken as a stand-alone class or may be combined with VT52A and a Clinical Preceptorship (VT57A & B) to earn a Veterinary Assisting Program Certificate of Completion.

V T 53A MEDICAL TERMINOLOGY 1 Unit
2 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
2 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
2 hours lecture-laboratory, 1 hour case study.
Introduction to principles of husbandry and medical care of common domestic large animal species. Breeding 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
3 hours lecture, 3 hours laboratory, 1 hour internet research, 1 hour open skills laboratory.

V T 56 ANIMAL MANAGEMENT & CLINICAL SKILLS II 4 Units
3 hours lecture, 3 hours laboratory, 1 hour internet research, 1 hour open skills laboratory.
Intended for the pre-clinical training of veterinary technology students and unregistered veterinary assistants. Survey of basic responsibilities and technical duties of veterinary technicians. Clinical nutrition and feeding of the dog and cat. Reproductive anatomy and physiology of the dog and cat including common reproductive disorders. Companion animal grooming. First aid. Instruction and practical experience in the basic principles and techniques of radiography, electrocardiography; venipuncture and blood collection technique; insertion and troubleshooting of intravenous catheters. Patient examination and assessment. Bandaging, casting, and splinting. Hands-on experience performing and assisting with routine clinical diagnostic and therapeutic procedures, including dermatologic and ophthalmologic procedures, blood and urine collection and other routine veterinary clinical procedures.

V T 60 VETERINARY OFFICE PRACTICE 2 Units
2 hours lecture, 1 hour case study.

V T 61 ANIMAL DISEASES 5 Units
4 hours lecture, 2 hours lecture-laboratory, 1 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
3 hours lecture, 3 hours laboratory, 1 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
1 hour lecture, 2 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
3 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.
Continuation of VT 52a. Cytological, histological, and microbiological techniques and their application to the veterinary assistant in the care of the patient. Principles and techniques of performing basic laboratory tests applicable to companion and farm animal medicine. Emphasis is on the role of the veterinary assistant in collection, transport, and processing of the specimens. Introduction to diagnostic and therapeutic techniques and common diseases of laboratory animals. Appropriate euthanasia methods and safety protocols for the veterinary assistant will be discussed.

V T 96 CANINE MEDICINE 6 Units
3 hours lecture, 1 hour case study.
Continuation of VT 95B. Practical application of animal care skills and principles of animal care and disease management. Emphasis is on the role of the veterinary assistant in the care of the patient. Principles and techniques of performing basic laboratory tests applicable to companion and farm animal medicine. Emphasis is on the role of the veterinary assistant in collection, transport, and processing of the specimens. Introduction to diagnostic and therapeutic techniques and common diseases of laboratory animals. Appropriate euthanasia methods and safety protocols for the veterinary assistant will be discussed.

V T 97 LABORATORY ANIMAL TECHNOLOGY 4 Units
4 hours lecture, 1 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 98 CLINICAL PRECEPTORSHIP 2 1.5 Units
Corequisite: V T 52A.
7.5 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 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.
250

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009  www.foothill.edu

V T 88B  CLINICAL PRECEPTORSHIP II  1.5 Units
Coursequisite: V T 52B.
7.5 hours clinical.
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
2 hours lecture, 1 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
3 hours laboratory.
Review of pertinent subject matter in preparation for the California State Registered Veterinary Technician Examination. Provides opportunity for developing proficiency in practical clinical skills required of the graduate veterinary technician.

V T 190  DIRECTED STUDY  0.5 Unit
V T 190X  1 Unit
V T 190Y  1.5 Units
V T 190Z  1.5 Units
Advisory: Pass/No Pass.
Any combination of V T 190–190Z may be taken a maximum of 6 times for 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.

V T 190Y  1.5 Units
V T 190Z  1.5 Units
Advisory: Pass/No Pass.
Any combination of V T 190–190Z may be taken a maximum of 6 times for 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.

V T 190X  1 Unit
V T 190Y  1.5 Units
V T 190Z  1.5 Units
Advisory: Pass/No Pass.
Any combination of V T 190–190Z may be taken a maximum of 6 times for 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 (650) 949-7562 www.foothill.edu/fa/

VART 1  INTRODUCTION TO FILM STUDIES  4 Units
Advisory: Not open to students with credit in F TV 1.
4 hours lecture, 1 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
Advisory: Not open to students with credit in F TV 2A.
4 hours lecture, 1 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
Advisory: Not open to students with credit in F TV 2B.
4 hours lecture, 1 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
Advisory: Not open to students with credit in F TV 2C.
4 hours lecture, 1 hour laboratory.

VART 3  AMERICAN CINEMA  4 Units
Advisory: Not open to students with credit in F TV 3.
4 hours lecture, 1 hour laboratory.
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 4  SCRIPTWRITING FOR FILM & VIDEO  4 Units
3 hours lecture, 2 hours lecture-laboratory.
An introductory course in scriptwriting for film and video which covers the basic skills needed in scripting for the media. Emphasis will be on the development of visual sensitivity, the examination of sample scripts and experience in progressing from concept to finished script. The role of the script in media production and the appropriate formats for fiction and non-fiction scripts will also be examined.

VART 5B  PLAYWRITING  4 Units
Prerequisite: ENGL 1A eligible.
Advisory: Not open to students with credit in VART 5B or CRWR 36B or DRAM 5B or 55B or THTR 5B.
4 hours lecture, 1 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.

VART 6  ADVANCED PLAYWRITING  4 Units
Prerequisite: THTR 5B, CRWR 36A, VART 5B
Advisory: Not open to students with credit in DRAM 6 or THTR 6.
May be taken 6 times for credit.
4 hours lecture, 1 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 7  HISTORY OF ANIMATION  4 Units
4 hours lecture, 1 hour laboratory.
A critical and historical international survey of the development of the animated film, from its pre-cinema origins to its present status as a contemporary art form.
VART 8 | GLOBAL MEDIA | 4 Units
4 hours lecture, 1 hour laboratory.
A critical examination of the economic, political and cultural dynamics that shape the international media environment, its central actors and institutions.

VART 15 | WEB VIDEO | 4 Units
3 hours lecture, 2.5 hours lecture-laboratory.
An introduction to new developments in the use of video on the internet. The course covers a variety of internet media concepts such as compression, streaming, podcasting, and RSS feeds. Students study both technical and aesthetic considerations for web video.

VART 20 | DIGITAL VIDEO PRODUCTION I | 4 Units
Advisory: Not open to students with credit in F TV 20 or V ART 20.
Corequisite: V ART 150X.
May be taken 3 times for credit.
3 hours lecture, 2.5 hours lecture-laboratory.
Basic instruction in concepts, techniques, and strategies of DV video production. Basic camera, lighting and sound recording will be covered through technical workshops. Emphasis on video story telling and creative problem solving.

VART 21 | DIGITAL VIDEO PRODUCTION II | 4 Units
Prerequisite: V ART 20 or G ID 20.
Advisory: Not open to students with credit in F TV 21.
Corequisite: V ART 150X.
May be taken 3 times for credit.
3 hours lecture, 2.5 hours lecture-laboratory.
Continuation of V ART 20. Further exploration of video production with an emphasis on pre-production and scripting methods.

VART 25 | LIGHTING FOR DIGITAL VIDEO & FILM | 4 Units
Advisory: V ART 20 or PHOT 5.
3 hours lecture, 2.5 hours lecture-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.

VART 50 | CAREERS IN THE VISUAL ARTS | 2 Units
Advisory: Not open to students with credit in G ID 60.
2 hours lecture.
Exploring the field of visual arts including fine arts, design, graphic design, photography, video arts, new media, and theatre arts. Survey of transfer schools, art studios, company art departments, advertising agencies and job opportunities for creative services professionals.

VART 60 | CAREERS IN THE VIDEO ARTS | 2 Units
2 hours lecture.
Exploring the field of visual arts including fine arts, design, graphic design, photography, video arts, new media, and theatre arts. Survey of transfer schools, art studios, company art departments, advertising agencies and job opportunities for creative services professionals.

VART 80 | SPECIAL PROJECTS IN VIDEO | 1 Unit
V ART 80X | 2 Units
V ART 80Y | 4 Units
Advisory: Not open to students with credit in F TV 80.
Any combination of V ART 80–80Y may be taken for a maximum of 24 units. 3 hours laboratory for each unit of credit.
Individual projects in creative, technical or applied work in television or film by arrangement with the instructor. A limited area is explored at length.

VART 81B | RECORDING ARTS II: AUDIO FOR VIDEO | 4 Units
2 hours lecture, 3 hours lecture-laboratory, 3 hours laboratory.
Creating and editing soundtracks and audio for digital video, music video and film. Recording live sound, and integrating sound effects from a digital library. Dialogue editing and re-recording (looping), and musical soundtrack creation. Synchronization of audio to video using timeline mode, aesthetic quality of sound and music as it relates to video content, and the production of video/audio projects using Final Cut Pro and Pro Tools.

VART 84 | DIGITAL VIDEO EDITING I | 4 Units
Formerly: F TV 84
Prerequisite: Must demonstrate basic computer proficiency.
Corequisite: V ART 150X.
May be taken 3 times for credit.
3 hours lecture, 2.5 hours lecture-laboratory.
Basic instruction on the use of the computer for video and film editing using Final Cut Pro software. The theory and practice of cinematic editing which is explored through projects, screenings, class exercises, and demonstration. Topics include montage, pace and rhythm, openings, cutting dialogue, use of sound.

VART 85 | DIGITAL VIDEO EDITING II | 4 Units
Prerequisite: V ART 84 or 86.
Advisory: Not open to students with credit in F TV 85.
Corequisite: V ART 150X.
May be taken 3 times for credit.
3 hours lecture, 2.5 hours lecture-laboratory.
Continuation of V ART 84. Further exploration of technical and aesthetic considerations in film and video editing. The course will address advanced topics in digital post-production using Final Cut Pro software. Software topics include sync, audio mixing, color correction, and composting.

VART 86 | INTRODUCTION TO DIGITAL SOUND, VIDEO & ANIMATION | 4 Units
Advisory: Not open to students with credit in ART 88, DRAM 86, M US 86, G ID 80 or F TV 86.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Basic instruction using the computer for emerging media technologies; digital sound, video editing, and animation. Emphasis on time based media and creative problem solving.

VART 87 | MOTION GRAPHICS | 4 Units
Advisory: ART 88 or DRAM 86 or G ID 80 or M US 86 or V ART 86. Not open to students with credit in G ID 84.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory.
Basic instruction using the computer for motion graphic design and composite digital video production. Emphasis on time based media and its application to creative problem solving and communication solutions.

VART 89 | INTRODUCTION TO THE MAYA 3D SYSTEM | 4 Units
Prerequisite: must demonstrate computer proficiency.
3 hours lecture, 2.5 hours lecture-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
V ART 150X | 1 Unit
V ART 150Y | 1.5 Units
V ART 150Z | 2 Units
Non-degree applicable non-credit course.
Any combination of V ART 150–150Z may be taken for a maximum of 12 units. 1.5 hours laboratory for each .5 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.

**VITICULTURE**

Biological & Health Sciences (650) 949-7249

VITI 90A | WINE APPRECIATION | 1 Unit
Advisory: Lab fee will be assessed. Students must be at least 21 years old to participate in tasting.
May be taken 3 times for credit.
1 hour lecture.
Trace the lineage of wines as they developed around the world, how certain cultures are defined by particular grape varietals or wine types. The development of each region and the wines associated will be culminated at the end of each session with a sampling of wines. Reading wine labels will be demystified, reducing the confusion and minimizing risk when selecting a bottle of wine. Grape growing and winemaking techniques throughout history and around the world are examined. Guest speakers, including sommelier, chef, vendor, and critic guide the winetastings as they impart their specialized skills.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
and domestically. Examination and analysis of the historical roles of women globally and the impact 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 15 A HISTORY OF WOMEN IN ART 4 Units
Advisory: Not open to students with credit in ART 2E.
4 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.
4 hours lecture.
Survey of gender issues based upon psychological and sociological theories and research. Examination of sex role stereotyping and differences. Developmental considerations.

WMN 34H HONORS INSTITUTE SEMINAR IN WOMEN'S STUDIES 1 Unit
Formerly: WMN 34
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in WMN 34.
1 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 6 times for credit.
1 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
WMN 36X 2 Units
WMN 36Y 3 Units
WMN 36Z 4 Units
Any combination of WMN 36–36Z may be taken for a maximum of 6 units.
1 hour lecture for each unit of credit.
Advanced readings, research and/or project in women's studies. Specific topics determined in consultation with instructor.

WOMEN'S STUDIES
Business & Social Sciences  (650) 949-7322
www.foothill.edu/bss/

WMN 5 INTRODUCTION TO WOMEN'S STUDIES 4 Units
4 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
4 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.

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Review the online version of the catalog for the most current course information. Foothill College 2008–2009 www.foothill.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACAD 101</td>
<td>Reading Improvement/Speed Reading</td>
<td>ANTH 34</td>
<td>Honors Institute Seminar in Anthropology</td>
</tr>
<tr>
<td>ACAD 107</td>
<td>Writing for Public Service Agencies</td>
<td>ART 4A,T</td>
<td>Introduction to Drawing</td>
</tr>
<tr>
<td>ACAD 109</td>
<td>Notetaking Skills</td>
<td>ART 4B,T</td>
<td>Intermediate Drawing</td>
</tr>
<tr>
<td>ACAD 111</td>
<td>Summary Writing</td>
<td>ART 4C,T</td>
<td>Advanced Drawing</td>
</tr>
<tr>
<td>ACAD 150</td>
<td>Vocabulary Development</td>
<td>ART 4D,T</td>
<td>Figure Drawing</td>
</tr>
<tr>
<td>ACAD 151</td>
<td>Sentence &amp; Punctuation Skills</td>
<td>ART 4E,T</td>
<td>Portrait Drawing</td>
</tr>
<tr>
<td>ACAD 167Y,Z</td>
<td>Standardized Test Preparation for Youth: English</td>
<td>ART 15L</td>
<td>Design Laboratory</td>
</tr>
<tr>
<td>ALAP 104</td>
<td>Adaptive Fitness Internship</td>
<td>ART 19A,T</td>
<td>Painting</td>
</tr>
<tr>
<td>ALAP 105,X</td>
<td>Adaptive Fitness Directed Study</td>
<td>ART 20A,T-20B,T</td>
<td>Color</td>
</tr>
<tr>
<td>ALCA 101</td>
<td>Computer Access Evaluation</td>
<td>ART 34</td>
<td>Honors Institute Seminar in Art</td>
</tr>
<tr>
<td>ALCA 102</td>
<td>Computer Keyboarding Skills for the Disabled</td>
<td>ART 37A,T</td>
<td>Beginning Etching</td>
</tr>
<tr>
<td>ALCA 50A,B,C</td>
<td>Introduction to the Computer</td>
<td>ART 37B,T</td>
<td>Intermediate Etching</td>
</tr>
<tr>
<td>ALPS 104,X,Y</td>
<td>Post-Traumatic Disability Training</td>
<td>ART 37C,T</td>
<td>Advanced Etching</td>
</tr>
<tr>
<td>ALPS 163,X</td>
<td>Facial Exercises for the Acquired Brain Injury Student</td>
<td>ART 38A</td>
<td>Beginning Lithography</td>
</tr>
<tr>
<td>ALPS 164,X</td>
<td>Speech/Language Skills for the Nonfrequent Acquired Brain Injury Student</td>
<td>ART 38B</td>
<td>Intermediate Lithography</td>
</tr>
<tr>
<td>ALPS 167,X,Y</td>
<td>Cognitive Reorganization Skills for the Acquired Brain Injury Student</td>
<td>ART 38C</td>
<td>Advanced Lithography</td>
</tr>
<tr>
<td>ALPS 174,X</td>
<td>Upper Extremity Exercises for the Acquired Brain Injury Student</td>
<td>ART 38L</td>
<td>Lithography Laboratory</td>
</tr>
<tr>
<td>ALPS 176,X</td>
<td>Functional Skills of Daily Living for the Acquired Brain Injury Student</td>
<td>ART 39A,T</td>
<td>Beginning Screenprinting</td>
</tr>
<tr>
<td>ALPS 184,X</td>
<td>Basic Ambulation Skills for the Acquired Brain Injury Student</td>
<td>ART 39B,T</td>
<td>Intermediate Screenprinting</td>
</tr>
<tr>
<td>ALPS 187,X</td>
<td>Functional Mobility Skills</td>
<td>ART 39C,S,T</td>
<td>Advanced Screenprinting</td>
</tr>
<tr>
<td>ALTW 220</td>
<td>Banking for the Disabled Student</td>
<td>ART 45A,T</td>
<td>Beginning Ceramics</td>
</tr>
<tr>
<td>ALTW 221</td>
<td>Human Relationships for the Disabled Student</td>
<td>ART 45B,S</td>
<td>Intermediate Ceramics</td>
</tr>
<tr>
<td>ALTW 222</td>
<td>Independent Living Skills for the Disabled Student</td>
<td>ART 47S,T</td>
<td>Watercolor</td>
</tr>
<tr>
<td>ALTW 223</td>
<td>Consumer Purchasing Skills for the Disabled Student</td>
<td>ART 54</td>
<td>Anatomy for Artists</td>
</tr>
<tr>
<td>ALTW 224</td>
<td>Human Reproduction for the Disabled Student</td>
<td>ART 56S</td>
<td>Introduction to Computer Graphics</td>
</tr>
<tr>
<td>ALTW 225</td>
<td>Nutrition &amp; Health Practices for the Disabled Student</td>
<td>ART 57</td>
<td>Computer Graphics Applications</td>
</tr>
<tr>
<td>ALTW 226</td>
<td>Home Management for the Disabled Student</td>
<td>ART 58S</td>
<td>Basic Two-Dimensional Design</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ART 5AS,T</td>
<td>History of Women in Art Laboratory</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ART 65L</td>
<td>Italian Art</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ART 67</td>
<td>Introduction to Printmaking</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ART 69S,T</td>
<td>Composition</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ART 96,T</td>
<td>Books as Art</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ART 97S,T</td>
<td>Materials &amp; Media</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ASTR 34</td>
<td>Honors Institute Seminar in Astronomy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 96</td>
<td>Eclipses</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 16</td>
<td>Ornithology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 170</td>
<td>Marine Mammals for Youth</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 191</td>
<td>Writing/Communication Across the Curriculum for Biology &amp; Health</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 191X-Z</td>
<td>Writing/Communication Across the Curriculum for Biology &amp; Health</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 192</td>
<td>Community Service Learning Across the Curriculum for Biological &amp; Health Sciences</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 20</td>
<td>Environmental Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 22</td>
<td>Biology of Human Reproduction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 33A</td>
<td>Cell Biology Seminar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 33B</td>
<td>Anatomy &amp; Physiology Seminar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 33C</td>
<td>Population Biology Seminar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIOL 33D</td>
<td>Molecular Genetics Seminar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIS 53</td>
<td>Survey of International Business</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIS 58</td>
<td>Survey of International Marketing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BIS 95E</td>
<td>Small Business Export &amp; Import</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 150,X-Z</td>
<td>Business Computer Laboratory</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 55</td>
<td>Department Honors Projects in Business</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97D</td>
<td>Basic Management &amp; Supervision</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97E</td>
<td>Transition to Supervisor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97F</td>
<td>Employee Motivation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97G</td>
<td>Employee Communication</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97H</td>
<td>Employee Training &amp; Discipline</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97I</td>
<td>Productive Interviews</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97J</td>
<td>Time Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97K</td>
<td>Performance Appraisal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97L</td>
<td>The Art of Leadership</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97M</td>
<td>Effective Management Planning</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97P</td>
<td>Dynamics of Marketing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97Q</td>
<td>Effective Marketing Planning</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97R</td>
<td>Successful Product Strategy</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97S</td>
<td>Pricing for Profit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97T</td>
<td>Dynamics of Distribution</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97U</td>
<td>Successful Product Promotion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97V</td>
<td>Stress Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BUSI 97W</td>
<td>Practicing Management Skills; Ethics &amp; Change</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHEM 34</td>
<td>Honors Institute Seminar in Chemistry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHEM 41</td>
<td>Class Practices; Middle School Science</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHEM 42</td>
<td>Class Practices; Elementary School Science</td>
</tr>
</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted. Foothill College 2008-2009 www.foothill.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 8A,B</td>
<td>Introduction to Organic Chemistry</td>
</tr>
<tr>
<td>CHIN 101–105</td>
<td>Chinese for International Business</td>
</tr>
<tr>
<td>CHIN 15,–65T</td>
<td>Intermediate Chinese</td>
</tr>
<tr>
<td>CHIN 34</td>
<td>Honors Institute Seminar in Chinese</td>
</tr>
<tr>
<td>CHLD 68S</td>
<td>Topics/Projects in Child Development</td>
</tr>
<tr>
<td>CHLD 71S</td>
<td>Planning Creative Art Activities for Children</td>
</tr>
<tr>
<td>CHLD 76</td>
<td>Supervised Field Experience</td>
</tr>
<tr>
<td>CIS 117U–W</td>
<td>CIS Experiential Internship</td>
</tr>
<tr>
<td>CIS 185</td>
<td>C++ Programming for ATYP</td>
</tr>
<tr>
<td>CIS 186</td>
<td>Java Programming for ATYP</td>
</tr>
<tr>
<td>CIS 51CT</td>
<td>Workplace Principles &amp; Practices</td>
</tr>
<tr>
<td>CIS 68B1</td>
<td>Linux &amp; UNIX Shell Programming</td>
</tr>
<tr>
<td>CIS 68B2</td>
<td>Advanced UNIX Scripting</td>
</tr>
<tr>
<td>CNET 111</td>
<td>Introduction to Personal Computer Construction &amp; Operation</td>
</tr>
<tr>
<td>CNET 114</td>
<td>Advanced PC Construction &amp; Troubleshooting</td>
</tr>
<tr>
<td>CNET 115</td>
<td>A+ Computer Exam Prep for PC</td>
</tr>
<tr>
<td>CNET 117X–Z</td>
<td>CNET Internship</td>
</tr>
<tr>
<td>CNET 53</td>
<td>Principles of Data Communication Protocols</td>
</tr>
<tr>
<td>CNET 54</td>
<td>Systems Network Architecture</td>
</tr>
<tr>
<td>CNET 59</td>
<td>Transmission Control Protocol/Internet Protocol (TCP/IP)</td>
</tr>
<tr>
<td>CNET 61</td>
<td>Wide Area Networking</td>
</tr>
<tr>
<td>CNET 68</td>
<td>Principles of Network Analysis &amp; Design</td>
</tr>
<tr>
<td>CNET 93U</td>
<td>CNET Experiential Internship</td>
</tr>
<tr>
<td>CNET 95B</td>
<td>Frame Support &amp; Hardware</td>
</tr>
<tr>
<td>CNET 95C</td>
<td>Fundamentals of Fiber Optics</td>
</tr>
<tr>
<td>CNET 95D</td>
<td>Codes, Specifications &amp; Safety</td>
</tr>
<tr>
<td>CNET 95E</td>
<td>Cable Plant Engineering &amp; Design</td>
</tr>
<tr>
<td>CNET 95F</td>
<td>Fiber Optics Installation, Testing &amp; Troubleshooting</td>
</tr>
<tr>
<td>CNSL 390</td>
<td>Leadership Service Directed Study</td>
</tr>
<tr>
<td>COIN 18I</td>
<td>Web Site Design for ATYP</td>
</tr>
<tr>
<td>COIN 60</td>
<td>HTML Web Publishing I</td>
</tr>
<tr>
<td>COIN 62</td>
<td>HTML Web Publishing II</td>
</tr>
<tr>
<td>COIN 64</td>
<td>HTML Web Publishing III (Dynamic)</td>
</tr>
<tr>
<td>COIN 70</td>
<td>JAVAscript (EcmaScript)</td>
</tr>
<tr>
<td>COMM 101A</td>
<td>Group Discussion for ATYP</td>
</tr>
<tr>
<td>COMM 104</td>
<td>Honors Institute Seminar in Speech</td>
</tr>
<tr>
<td>COMM 34</td>
<td>Survey of Oral Communication</td>
</tr>
<tr>
<td>CRLP 70S,T</td>
<td>Self-Assessment</td>
</tr>
<tr>
<td>CRLP 71S,T</td>
<td>Exploiting Career Fields</td>
</tr>
<tr>
<td>CRLP 72S</td>
<td>Interviewing for Career Information</td>
</tr>
<tr>
<td>CRLP 73S</td>
<td>Effective Resume Writing</td>
</tr>
<tr>
<td>CRLP 74S</td>
<td>Successful Interview Techniques</td>
</tr>
<tr>
<td>CRWR 106S</td>
<td>Introduction to Creative Writing</td>
</tr>
<tr>
<td>CRWR 137</td>
<td>Introduction to Creative Writing: Film</td>
</tr>
<tr>
<td>CRWR 160A</td>
<td>Introduction to Creative Writing for Youth Program</td>
</tr>
<tr>
<td>CRWR 34</td>
<td>Honors Institute Seminar in Creative Writing</td>
</tr>
<tr>
<td>CRWR 36A</td>
<td>Writing for the Performing Arts: An Internet Course</td>
</tr>
<tr>
<td>CRWR 39AS,T</td>
<td>Introduction to Short Story Writing</td>
</tr>
<tr>
<td>CRWR 39BS,T</td>
<td>Short Creative Writing: Short Story</td>
</tr>
<tr>
<td>CRWR 65</td>
<td>Magazine Staff</td>
</tr>
<tr>
<td>CWE 52,X–Z,ZS</td>
<td>Occupational Work Experience: Alternate</td>
</tr>
<tr>
<td>CWE 60T,Y–Z</td>
<td>Occupational Work Experience: Apprentice</td>
</tr>
<tr>
<td>CWE 71J,W,X</td>
<td>General Work Experience: Alternate</td>
</tr>
<tr>
<td>DRAM 1</td>
<td>Theatre Arts Appreciation</td>
</tr>
<tr>
<td>DRAM 120A–C</td>
<td>Principles of Acting for Youth</td>
</tr>
<tr>
<td>DRAM 15,T</td>
<td>Theatre Arts Appreciation</td>
</tr>
<tr>
<td>DRAM 2AS,T–CS,T</td>
<td>Introduction to Dramatic Literature</td>
</tr>
<tr>
<td>DRAM 2D–F</td>
<td>Introduction to Dramatic Literature</td>
</tr>
<tr>
<td>DRAM 349,Y</td>
<td>Theatre Production Assistant</td>
</tr>
<tr>
<td>DRAM 355</td>
<td>Department Honors Projects in Drama</td>
</tr>
<tr>
<td>DRAM 380</td>
<td>Musical Theatre Assistance</td>
</tr>
<tr>
<td>DRAM 495</td>
<td>Rehearsal &amp; Performance</td>
</tr>
<tr>
<td>DRAM 53S,T</td>
<td>Auditioning for Theatre</td>
</tr>
<tr>
<td>DRAM 58S,T</td>
<td>Gesture &amp; Movement for the Actor</td>
</tr>
<tr>
<td>DRAM 59S,T</td>
<td>Dialects &amp; Theatre Speech</td>
</tr>
<tr>
<td>DRAM 61S,T</td>
<td>The Theatre Live On-Stage</td>
</tr>
<tr>
<td>DRAM 62S,T</td>
<td>Acting for Film &amp; Television</td>
</tr>
<tr>
<td>DRAM 86</td>
<td>Introduction to Digital Sound, Video &amp; Animation</td>
</tr>
<tr>
<td>DRAM 90Y</td>
<td>Drama/Music Festival Production</td>
</tr>
<tr>
<td>DRAM 96,X–Z</td>
<td>Advanced Vocal Techniques for the Theatre</td>
</tr>
<tr>
<td>DRAM 98,X–Z</td>
<td>Advanced Stage Movement Techniques</td>
</tr>
<tr>
<td>ECON 12</td>
<td>Economic History of Western Civilization</td>
</tr>
<tr>
<td>EMTP 100</td>
<td>Mobile Intensive Care Program: Theory</td>
</tr>
<tr>
<td>EMTP 103</td>
<td>Mobile Intensive Care Program: Field Internship Phase</td>
</tr>
<tr>
<td>ENGL 10</td>
<td>Introduction to the Novel</td>
</tr>
<tr>
<td>ENGL 108S,T</td>
<td>Reading &amp; Writing on Special Topics</td>
</tr>
<tr>
<td>ENGL 156</td>
<td>Writing College Transfer Essays</td>
</tr>
<tr>
<td>ENGL 16</td>
<td>Introduction to Literary Study</td>
</tr>
<tr>
<td>ENGL 18</td>
<td>Introduction to Myth in Literature</td>
</tr>
<tr>
<td>ENGL 19</td>
<td>Introduction to the Bible as Literature</td>
</tr>
<tr>
<td>ENGL 20</td>
<td>American Nature Writing</td>
</tr>
<tr>
<td>ENGL 24</td>
<td>Literature of Aids</td>
</tr>
<tr>
<td>ENGL 27A–F</td>
<td>Shakespeare Plays</td>
</tr>
<tr>
<td>ENGL 28</td>
<td>Survey of the Literature of Jane Austen</td>
</tr>
<tr>
<td>ENGL 29</td>
<td>Mystery &amp; Detective Fiction</td>
</tr>
<tr>
<td>ENGL 32</td>
<td>Irish Literature</td>
</tr>
<tr>
<td>ENGL 34</td>
<td>Honors Institute Seminar in English</td>
</tr>
<tr>
<td>ENGL 43</td>
<td>Major American Writers</td>
</tr>
<tr>
<td>ENGL 45</td>
<td>Major European Writers</td>
</tr>
<tr>
<td>ENGL 47</td>
<td>Major British Writers</td>
</tr>
<tr>
<td>ENGL 49</td>
<td>California Literature</td>
</tr>
<tr>
<td>ENGL 51A</td>
<td>Student Success in the English Classroom</td>
</tr>
<tr>
<td>ENGL 51B</td>
<td>Student Success in the English Classroom</td>
</tr>
<tr>
<td>ENGL 52</td>
<td>Analytical Reading</td>
</tr>
<tr>
<td>ENGL 9</td>
<td>Short Story</td>
</tr>
<tr>
<td>ENGL H</td>
<td>Honors Example</td>
</tr>
<tr>
<td>ENGR 5</td>
<td>Engineering Applications Programming</td>
</tr>
<tr>
<td>ESL 175</td>
<td>Oral Communication Skills III</td>
</tr>
<tr>
<td>FLAN 61</td>
<td>Intercultural Language Application</td>
</tr>
<tr>
<td>FREN 101–105</td>
<td>French for International Business</td>
</tr>
</tbody>
</table>

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.  
Foothill College 2008–2009  www.foothill.edu
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>FREN 110</td>
<td>Everyday French 1: A Communicative Approach</td>
</tr>
<tr>
<td>FREN 111</td>
<td>Everyday French 2: A Communicative Approach</td>
</tr>
<tr>
<td>FREN 15,T</td>
<td>French Pronunciation</td>
</tr>
<tr>
<td>FREN 3</td>
<td>Elementary French</td>
</tr>
<tr>
<td>FREN 45,T</td>
<td>Intermediate French</td>
</tr>
<tr>
<td>FREN 50A,B</td>
<td>Practical French</td>
</tr>
<tr>
<td>FREN 55,T</td>
<td>Intermediate French</td>
</tr>
<tr>
<td>FREN 65,T</td>
<td>Intermediate French</td>
</tr>
<tr>
<td>GEOG 34</td>
<td>Honors Institute Seminar in Geography</td>
</tr>
<tr>
<td>GEOG 56</td>
<td>Introduction to Spatial Analysis</td>
</tr>
<tr>
<td>GEOG 91</td>
<td>California's Whitewater Geography</td>
</tr>
<tr>
<td>GEOG 92</td>
<td>California's Whitewater Geography Field Study</td>
</tr>
<tr>
<td>GEOG 93</td>
<td>Honors Institute Seminar in Geology</td>
</tr>
<tr>
<td>GEOL 45A</td>
<td>Excursions in Geology: Lassen Volcanic National Park</td>
</tr>
<tr>
<td>GEOL 45B</td>
<td>Excursions in Geology: Yosemite National Park</td>
</tr>
<tr>
<td>GEOL 45C</td>
<td>Excursions in Geology: Holister &amp; Pinnacles National Monument</td>
</tr>
<tr>
<td>GEOL 45D</td>
<td>Excursions in Geology: Owens Valley &amp; Eastern Sierras</td>
</tr>
<tr>
<td>GEOL 45E</td>
<td>Excursions in Geology: North Coast, Point Reyes National Seashore &amp; San Andreas Fault Zone</td>
</tr>
<tr>
<td>GEOL 49A</td>
<td>Geologic Expeditions: Death Valley &amp; Colorado Plateau</td>
</tr>
<tr>
<td>GERM 101-105</td>
<td>German for International Business</td>
</tr>
<tr>
<td>GERM 15,T-2S,T</td>
<td>German Pronunciation</td>
</tr>
<tr>
<td>GERM 30</td>
<td>Intermediate German</td>
</tr>
<tr>
<td>GERM 35,T-55,T</td>
<td>Topics in Applied Foreign Language</td>
</tr>
<tr>
<td>GERM 60</td>
<td>German for International Business</td>
</tr>
<tr>
<td>GERM 65,T</td>
<td>Intermediate German</td>
</tr>
<tr>
<td>GRDS 141</td>
<td>Multimedia for Artists</td>
</tr>
<tr>
<td>GRDS 190,X-Z</td>
<td>Directed Study</td>
</tr>
<tr>
<td>GRDS 20</td>
<td>Video Production I</td>
</tr>
<tr>
<td>GRDS 35,X-Z</td>
<td>Honors Projects in Graphic Design</td>
</tr>
<tr>
<td>GRDS 37A</td>
<td>Beginning Etching</td>
</tr>
<tr>
<td>GRDS 37L</td>
<td>Etching Laboratory</td>
</tr>
<tr>
<td>GRDS 38L</td>
<td>Lithography Laboratory</td>
</tr>
<tr>
<td>GRDS 58</td>
<td>Figure Drawing for Graphic Designers</td>
</tr>
<tr>
<td>GRDS 64A</td>
<td>Fashion Illustration</td>
</tr>
<tr>
<td>GRDS 65A</td>
<td>Communication Design</td>
</tr>
<tr>
<td>GRDS 66A,B</td>
<td>Computer Graphics I</td>
</tr>
<tr>
<td>GRDS 670</td>
<td>Commercial Illustration</td>
</tr>
<tr>
<td>GRDS 72</td>
<td>Business Practices of the Graphic Artist</td>
</tr>
<tr>
<td>GRDS 73B</td>
<td>Film Animation</td>
</tr>
<tr>
<td>GRDS 74</td>
<td>Advanced Cartooning</td>
</tr>
<tr>
<td>GRDS 78</td>
<td>Anatomy for Artists</td>
</tr>
<tr>
<td>GRDS 80</td>
<td>Portfolio Presentation</td>
</tr>
<tr>
<td>GRDS 82A,B</td>
<td>Introduction to the History of Interior Design</td>
</tr>
<tr>
<td>GRDS 85</td>
<td>Advertising Design</td>
</tr>
<tr>
<td>GRDS 88</td>
<td>Graphic Arts Production</td>
</tr>
<tr>
<td>GRDS 88A</td>
<td>Graphic Arts Production Theory</td>
</tr>
<tr>
<td>GRDS 88C</td>
<td>Digital Color Prepress</td>
</tr>
<tr>
<td>GRDS 92</td>
<td>Graphic Design &amp; Layout</td>
</tr>
<tr>
<td>GRDS 95</td>
<td>Design with Macromedia Flash</td>
</tr>
<tr>
<td>GRDS 98</td>
<td>Graphic Arts Studio Projects</td>
</tr>
<tr>
<td>H P 12S</td>
<td>Lifeguard Training</td>
</tr>
<tr>
<td>H P 16BS</td>
<td>Skiing Conditioning</td>
</tr>
<tr>
<td>H P 53A</td>
<td>Beginning Table Tennis</td>
</tr>
<tr>
<td>HEBR 1,S,T-3</td>
<td>Elementary Hebrew</td>
</tr>
<tr>
<td>HIST 12</td>
<td>Economic History of Western Civilization</td>
</tr>
<tr>
<td>HIST 14</td>
<td>Chicano History</td>
</tr>
<tr>
<td>HIST 34</td>
<td>Honors Institute Seminar in History</td>
</tr>
<tr>
<td>HIST 75</td>
<td>Cardiopulmonary Resuscitation</td>
</tr>
<tr>
<td>HLTH 120</td>
<td>Health Education &amp; Living Skills for Youth</td>
</tr>
<tr>
<td>HLTH 190,X-Z</td>
<td>Directed Study</td>
</tr>
<tr>
<td>ITAL 1</td>
<td>Elementary Italian</td>
</tr>
<tr>
<td>ITAL 190X</td>
<td>Directed Study</td>
</tr>
<tr>
<td>ITAL 2.3</td>
<td>Elementary Italian</td>
</tr>
<tr>
<td>ITAL 61,S</td>
<td>Practical Italian</td>
</tr>
<tr>
<td>JAPN 100,S,T</td>
<td>Elementary Japanese for ATYP</td>
</tr>
<tr>
<td>JAPN 101-105</td>
<td>Japanese for International Business</td>
</tr>
<tr>
<td>JAPN 150</td>
<td>Japanese Cultural Seminar for ATYP</td>
</tr>
<tr>
<td>JAPN 15,T-48,T</td>
<td>Intermediate Japanese</td>
</tr>
<tr>
<td>JAPN 34</td>
<td>Honors Institute Seminar in Japanese</td>
</tr>
<tr>
<td>JAPN 50A-F</td>
<td>Japanese Cultural Seminar for ATYP</td>
</tr>
<tr>
<td>JAPN 55,T-65,T</td>
<td>Intermediate Japanese</td>
</tr>
<tr>
<td>JAPN 80</td>
<td>Introduction to Japanese</td>
</tr>
<tr>
<td>KORE 100</td>
<td>Korean Language for ATYP</td>
</tr>
<tr>
<td>L A 150,X-Y</td>
<td>Language Arts Laboratory</td>
</tr>
<tr>
<td>L A 191,Y,Z</td>
<td>Writing/Communication Across the Curriculum for Language Arts</td>
</tr>
<tr>
<td>LATN 1-3</td>
<td>Elementary Latin</td>
</tr>
<tr>
<td>LATN 34</td>
<td>Honors Institute Seminar in Latin</td>
</tr>
<tr>
<td>LIBR 55</td>
<td>Internet Research Strategies &amp; Critical Thinking Skills</td>
</tr>
<tr>
<td>LIBR 57</td>
<td>Internet Research Strategies, Critical Thinking Skills &amp; Information Literacy</td>
</tr>
<tr>
<td>LIBR 60</td>
<td>Information Competency: Social Sciences</td>
</tr>
<tr>
<td>LIBR 61</td>
<td>Information Competency: Social Sciences</td>
</tr>
<tr>
<td>LING 27</td>
<td>Black English: Structure &amp; Function</td>
</tr>
<tr>
<td>MATH 101A</td>
<td>Elementary Algebra: Real Numbers</td>
</tr>
<tr>
<td>MATH 101B</td>
<td>Elementary Algebra: Equations</td>
</tr>
<tr>
<td>MATH 101C</td>
<td>Elementary Algebra: Polynomials</td>
</tr>
<tr>
<td>MATH 101D</td>
<td>Elementary Algebra: Linear Equations</td>
</tr>
<tr>
<td>MATH 101E</td>
<td>Elementary Algebra: Systems of Equations</td>
</tr>
<tr>
<td>MATH 135,X,Y</td>
<td>Problem Solving for Mathematics Contest</td>
</tr>
<tr>
<td>MATH 156</td>
<td>Essential Decision Skills</td>
</tr>
<tr>
<td>MATH 167,X-Z</td>
<td>Standardized Test Preparation: Mathematics</td>
</tr>
<tr>
<td>MATH 190,N-Z</td>
<td>Directed Study</td>
</tr>
<tr>
<td>MATH 195</td>
<td>Advanced Problem Solving for High School Mathematics Contest</td>
</tr>
<tr>
<td>MATH 200A</td>
<td>Structure of Arithmetic: Whole Numbers, Integers, Algebraic Expressions</td>
</tr>
<tr>
<td>MATH 200B</td>
<td>Structure of Arithmetic: Fractions</td>
</tr>
<tr>
<td>MATH 200C</td>
<td>Structure of Arithmetic: Decimals, Ratios &amp; Proportions</td>
</tr>
<tr>
<td>MATH 200D</td>
<td>Structure of Arithmetic: Percent</td>
</tr>
<tr>
<td>MATH 200E</td>
<td>Structure of Arithmetic: Geometry &amp; Measurement</td>
</tr>
<tr>
<td>MATH 34,X,Y</td>
<td>Honors Institute Seminar in Mathematics</td>
</tr>
<tr>
<td>MET 34</td>
<td>Honors Institute Seminar in Meteorology</td>
</tr>
<tr>
<td>MUS 12F</td>
<td>Keyboard Musicianship</td>
</tr>
<tr>
<td>MUS 15,T</td>
<td>Introduction to Music</td>
</tr>
<tr>
<td>MUS 275,T</td>
<td>Symphony &amp; Concerto</td>
</tr>
<tr>
<td>MUS 28,5,T</td>
<td>Opera Survey</td>
</tr>
<tr>
<td>MUS 2AL</td>
<td>Music History Laboratory</td>
</tr>
<tr>
<td>MUS 2E</td>
<td>Women in Music History</td>
</tr>
<tr>
<td>MUS 308</td>
<td>Music &amp; Amusical Performance Assistance</td>
</tr>
<tr>
<td>MUS 34</td>
<td>Honors Institute Seminar in Music</td>
</tr>
<tr>
<td>MUS 3AL-CL</td>
<td>Theory Laboratory in Ear Training &amp; Sight Singing</td>
</tr>
</tbody>
</table>
MUS 43A,B  Keyboard Musicianship
MUS 46A  String Instruments
MUS 46B  Woodwind Instruments
MUS 46C  Brass Instruments
MUS 46D  Percussion Instruments
MUS 47  Intermediate Strings
MUS 4A,B  Intermediate Music Theory, Literature & Composition
MUS 4C  Advanced Music Theory, Literature & Composition
MUS 5  Counterpoint
MUS 51A,B  Intermediate Jazz Improvisation
MUS 51C  Advanced Jazz Improvisation
MUS 56A  Composing & Arranging With Digital Notation
MUS 56B  Songwriting & Production With Digital Notation II
MUS 60  Audio Recording Techniques
MUS 62A  Jazz & Popular Solo Voice I
MUS 62AL  Jazz & Popular Solo Voice Laboratory
MUS 62B  Jazz & Popular Solo Voice II
MUS 62BL  Jazz & Popular Solo Voice Laboratory
MUS 62C  Jazz & Popular Solo Voice III: Technology & the Singer
MUS 62CL  Jazz & Popular Solo Voice Laboratory
MUS 64  History of Jazz Styles & Trends
MUS 65  Careers in Music
MUS 80  Recording Arts I: Sound Reinforcement
MUS 81  Recording Arts II: Multitrack Recording
MUS 82  Recording Arts III: Mixing & Mastering
MUSP 196  Concert Preparation & Presentation
MUSP 19S,T  Concert Choir
MUSP 20S  Repertory Chorus
MUSP 24S,T  Gospel Chorus
MUSP 95  Performance Practices in Music
MUSP 96X,Y  Concert Preparation & Presentation
OCEN 34  Honors Institute Seminar in Oceanography
PHIL 34  Honors Institute Seminar in Philosophy
PHOT 2S,T  Intermediate Photography
PHOT 57  Photographic Portfolio
PHOT 67  Careers in the Visual Arts
PHOT 75S  Introduction to Computer Graphics
PHOT 82  Large-Format Photography
PHYS 34  Honors Institute Seminar in Physics
POLI 30  War & Peace in the 20th & 21st centuries
POLI 34  Honors Institute Seminar in Political Science
POLI 6  Black Political Economy
PSYC 34  Honors Institute Seminar in Psychology
PSYC 48  Introduction to Psychology of the Unconscious
PSYC 56  Psychology of Self
PSYC 51B  Advanced Real Estate Practices
PSYC 52B  Legal Aspects of Real Estate II
R T 57,X-Z  Special Apral Seminar
R T 80  Real Estate Exam Seminar
R T 50A  Law & Ethics in Medical Imaging
R T 50B  Basic Patient Care for Imaging Technology
R T 51D  Fundamentals of Radiologic Technology
R T 66  Computed Tomography Review
R T 67  Magnetic Resonance Imaging Review
R T 68  Orientation to Radiation Therapy
RTT 53  Directed Study
SCI 190,X-Z  Honors Institute Seminar in Science
SCI 34  Honors Institute Seminar in Science
SOC 34  Honors Institute Seminar in Sociology
SOC 58  Sociology of Violence
SOSC 15S,X,Y  Standardized Test Preparation
SOSC 34  Honors Institute Seminar in Social Science
SOSC 462  Supervised Business & Social Sciences Technology Tutoring
SPAN 101–106  Introduction to Business Spanish
SPAN 112,113  Spanish Language & Culture
SPAN 15,T-2S,T  Elementary Spanish
SPAN 31A,B  Spanish for Medical Personnel
SPAN 34  Honors Institute Seminar in Spanish
SPAN 35,X-Z  Department Honors Projects in Spanish
SPAN 55,T-6S,T  Intermediate Spanish
SPCH 10  Gender, Communication & Culture
SPCH 101A  Public Speaking for ATYP
SPCH 104  Group Discussion for ATYP
SPCH 105  Speaking with Confidence
SPCH 12  Intercultural Communication
SPCH 190,X-Z  Directed Study
SPCH 1A  Public Speaking
SPCH 1B  Argumentation & Persuasion
SPCH 2  Interpersonal Communication
SPCH 24  Readers’ Theatre
SPCH 3  Fundamentals of Oral Communication
SPCH 30  Oral Interpretation of Literature
SPCH 34  Honors Institute Seminar in Speech
SPCH 35,X-Z  Department Honors Projects in Speech
SPCH 36,X-Z  Special Projects in Speech
SPCH 4  Group Discussion
SPCH 46  Voice & Diction
SPCH 53  Forensic Speech/Debate
SPCH 54,X-Z  Special Projects: Intercolligate Debate
SPCH 55  Professional & Career Communication
SPCH 6  The Rhetoric of Political Speech
SPCH 65  Survey of Oral Communication
SPED 68  ADD Causes & Effects
T C 57  Travel Career Seminar
T C 90  Contemporary Technology Across the Disciplines in Travel Careers
V T 151  Introduction to Veterinary Science & Animal Care for Youth
WMN 34  Honors Institute Seminar in Women’s Studies

All courses on this page are Title 5 degree applicable credit courses unless otherwise noted.
Foothill College 2008–2009  www.foothill.edu
“At Foothill College, the top-notch education from quality teachers was the first stop for countless students who transferred to Stanford University, state universities, Ivy League schools and other great institutions.

“From the time you exit the freeway and drive up to the school, you can’t help but notice how beautiful and inviting it is. It was the same on campus. I met students from down the street and all over the world, and from countless races and backgrounds, all of whom strived to be special. Some of those students are still my best friends.

“Foothill College also gave me an opportunity to begin my college basketball career and start developing valuable skills as a sports writer on the school’s newspaper. Foothill College was my strong foundation and helped me rise to where I am today, and I will never forget where I come from.”

—Award-winning sports journalist Marc J. Spears earned the Foothill College Associate in Arts Degree in General Studies/Social Science as well as a bachelor’s degree in print journalism from San Jose State University. The NBA writer and columnist for The Denver Post, he is the West region director for the National Association of Black Journalists Sports Task Force.
Faculty & Staff

Foothill-De Anza
Community College District

Foothill College in Los Altos Hills, and De Anza College in Cupertino, are part of the Foothill-De Anza Community College District. The district is governed by a five-member board of trustees elected to staggered four-year terms by voters within the district. A student trustee from each college serves as representative to the board. Student trustees are appointed annually by the associated students group of each college.

Vice Chancellor, Business Services
W. Andrew Dunn
Vice Chancellor, Human Resources & Equal Opportunity
Dorene Novotny
Vice Chancellor, Technology
Fred Sherman
Executive Director, Facilities, Operations & Construction Management
Charles Allen
Executive Director, Institutional Research & Planning
Robert Barr
Director, Bond Program Management
De Anza
Thomas Armstrong
Director, Bond Program Management
Foothill
Art Heinrich
Director, Budget Operations
Bernata Slater
Director, District Safety
Ron Levine
Director, Environmental Health & Safety
Mona Voss
Director, Facilities & Operations
Frank Nuñez
Director, Foothill-De Anza Foundation
Marie Fox
Director, Human Resources
Kim Chief Elk
Director, Information Systems & Operations
Chien Shih
Director, FHDA Internship Program
Vicky Criddle
Director, Purchasing
Carmen Redmond
Director, Risk Management
Marsha Kelly
Director, Systems & Networks
Sharon Luciw
Controller
Hector Quinonez
Associate Director, Foothill-De Anza Foundation
Laura Woodworth
Associate Director, Facilities & Operations Management
Lester Lyons

Board of Trustees

Betsy Bechtel
Laura Casas Frier
Paul Fong
Confiance Dukunde
Student Trustee
Foothill College 2008–2009
(elected annually)

Bruce Swenson
Patrick Ahrens
Student Trustee
De Anza College 2008–2009
(elected annually)
Foothill College Administration

Vice Presidents

Educational Resources & Instruction
Shirley Treanor Barker, Ed.D.

Instruction & Institutional Research
Robert Johnstone, Ph.D.

Interim, Student Development & Instruction
Donald Dorsey, M.A.

Workforce Development & Instruction
Richard G. E. Galope, M.B.A.

Deans, Directors & Managers

Division Dean, Adaptive Learning & Disability Services
Gertrude Gregorio, M.A.

Interim Division Dean, Biological & Health Sciences
Eloise Orrell, M.S.

Division Dean, Business & Social Sciences
John B. Mummert, M.A.

Division Dean, Computers, Technology & Information Systems
Timothy Woods, M.A.

Division Dean, Counseling & Student Services
Open

Division Dean, Fine Arts & Communication
Duncan W. Graham, M.A.

Division Dean, Physical Education
Susan Gatlin, M.S.

Interim Division Dean, Language Arts
Paul Starer, M.A.

Division Dean, Physical Sciences, Mathematics & Engineering
Peter Murray, M.S.

Dean, Learning Technology
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
Denise Swett, Ph.D.

Dean, Student Affairs & Activities
Open

Dean, Student Support Programs & Services
Herlisa Hamp, M.A.

Director, College Bookstore
Romeo Paule, B.S.

Director, Extended Opportunity Program & Services (EOPS)
Matais Pouncil, M.A.

Director, Facilities & Special Projects
Brenda Visas, B.S.

Director, Financial Aid
Kevin Harral, M.A.

Director, Marketing & Communications
Kurt Hueg, B.A.
Faculty & Administrators


Anderson, Mark K. (1989) Music; Music Technology B.S., South Oregon State University; M.A., University of Denver


Austin, Kathleen Ramos (1990) Director, Diagnostic Medical Sonography Program ARIMS, AAART, CR, San Jose Hospital, San Jose; B.S., University of Phoenix

Baker, Judith (2007) Dean, Foothill Global Access B.A., College of William & Mary; M.S.W., Virginia Commonwealth University; Ph.D., University of Texas at Austin


Barker, Shirley Treanor (1988) Vice President, Educational Resources & Instruction 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

Barkey, Elizabeth (1984) Music A.A., Riverside Community College; B.A., M.A., University of California, Riverside; Ph.D., University of California, Berkeley

Becchine, Virginia E. (1976) Director, Respiratory Therapy A.S., Foothill College; B.A., Montclair State University; M.A., Santa Clara University


Bergmann, Janis (1998) Theatre Arts B.A., University of California, Los Angeles; M.A., San Jose State University

Berry, John (1985) Computer Information Systems B.A., University of California, Santa Cruz; M.A., Colorado State University

Bertani, Laurie (2001) Counseling B.A., Sonoma State University; M.A., San Jose State University

Bissell, Jeffrey (2006) Physical Education/Aquatics Coach B.A., M.A., California State University, Chico

Boyett, Douglas (1990) Physical Education, Football Coach A.A., Foothill College; B.A., California State University; Chico; M.A., St. Mary’s College

Brown, Carolyn (1996) Graphic & Interactive Design B.S., University of Pennsylvania; M.A., San Francisco State University


Carlson, Martha (2006) Coordinator, Cooperative Work Experience Program B.A., University of Iowa; M.A., California State University, East Bay

Carter, Celeste V. (1996) Biology B.S., University of California, Berkeley; M.S., Harvard; Ph.D., Pennsylvania State School of Medicine

Cascarano, Frank (2004) Physics B.S., University of California, Davis; M.S., University of California, San Diego

Cashmore, Beatrix (1993) Counselor A.B., University of California, Santa Cruz; M.S., San Francisco State University

Cellilo, Gerard (1989) Computer Information Systems, Counseling A.A.S., Borough of Manhattan Community College; B.S., M.A., Bradley University; Ed.D., University of San Francisco

Clement, Hilary (2001) Art B.F.A., Cooper Union; M.F.A., University of Iowa


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

Day, Bernadette (2001) Arctication 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

Dela Santos, Sarah (2008) Mathematics B.S., University of California, Davis; M.S., California State University, East Bay


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

Dominguez, Arno (1990) Physical Education B.A., San Jose State University; M.A., St. Mary’s College

Dorsey, Donald (1973) Interim Vice President, Student Development & Instruction 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

Edwards, Kelly (2007) Physical Education, Assistant Football Coach B.A., San Jose State University; M.A., National University

Erickson, Karen (2000) Biology B.S., San Francisco State University; M.S., University of California, Davis

Escoto, Isaac A. (2008) Counseling B.A., University of California, Davis; M.A., San Jose State University

Evans, Brian (2002) Economics B.A., University of California, San Diego; M.A., University of Hawaii
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feig, Konnilyn</td>
<td>(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</td>
</tr>
<tr>
<td>Finnegan, Jordana</td>
<td>(2005) English B.A., M.A., Ph.D., University of Oregon</td>
</tr>
<tr>
<td>Flannery, Owen</td>
<td>(2007) Physical Education, Women's Soccer Coach B.S., San Jose State University; M.A., John F. Kennedy University</td>
</tr>
<tr>
<td>Flowers, April</td>
<td>(1988) English, English as a Second Language B.A., Auburn University; M.A., San Francisco State University</td>
</tr>
<tr>
<td>Fong, Valerie</td>
<td>(2005) English B.A., University of California, Santa Cruz; M.A. California State University, Hayward</td>
</tr>
<tr>
<td>Fraknoi, Andrew</td>
<td>(1992) Astronomy B.A., Harvard University; M.A., University of California, Berkeley</td>
</tr>
<tr>
<td>Francisco, Marnie</td>
<td>(1991) Mathematics B.S., M.S., University of Oregon</td>
</tr>
<tr>
<td>Gatlin, Susan</td>
<td>(1996) Division Dean, Physical Education B.A., Humboldt State University; M.S., South Oregon State College</td>
</tr>
<tr>
<td>George, Carol</td>
<td>(1987) Counseling B.S., Ohio State University; M.A., Justin Peay State University</td>
</tr>
<tr>
<td>Georgiou, Ion</td>
<td>(2004) Mathematics B.S., Eastern Illinois University; M.S., University of Illinois, Champaign-Urbana; Ph.D., University of California, Santa Cruz</td>
</tr>
<tr>
<td>Giannetto, Kara</td>
<td>(2001) Physical Education, Women's Golf Coach B.A., California State University, Chico; M.A., San Jose State University</td>
</tr>
<tr>
<td>Gibbs, Patricia</td>
<td>(1999) Sociology B.A., University of British Columbia, Canada; M.A., University of Alberta, Canada; M.A., Ph.D., University of Hawaii at Manoa</td>
</tr>
<tr>
<td>Gillette, Karen</td>
<td>(1990) Librarian B.A., University of Oregon, Eugene; M.L.S., San Jose State University</td>
</tr>
<tr>
<td>Gough, Thomas</td>
<td>(2004) Theatre Arts B.A., Santa Clara University; M.F.A., University of California, Davis</td>
</tr>
<tr>
<td>Gravenhorst, Kurt</td>
<td>(1985) English B.S., M.A., University of Nevada, Reno; M.A., California State University, Dominguez Hills</td>
</tr>
<tr>
<td>Gray, Nicole</td>
<td>(1996) Mathematics A.B., Dartmouth College; M.S., University of Illinois</td>
</tr>
<tr>
<td>Green, Mary Jane</td>
<td>(2002) Director, Emergency Medical Technician, Paramedic Program B.A., San Jose State University</td>
</tr>
<tr>
<td>Gregorio, Gertrude</td>
<td>(1980) Division Dean, Adaptive Learning &amp; Disability Services B.A., University of the Philippines; M.A., University of San Francisco</td>
</tr>
<tr>
<td>Hack, Sharon</td>
<td>(1989) Travel Careers B.A., Brigham Young University</td>
</tr>
<tr>
<td>Hale, Melanie</td>
<td>(1990) Director, Psychological Services &amp; Personal Counseling B.A., City College of New York; M.S., Columbia University</td>
</tr>
<tr>
<td>Hamp, Herlisa</td>
<td>(2008) Dean, Student Support Programs &amp; Services B.A., University of California, Davis; M.A., San Jose State University</td>
</tr>
<tr>
<td>Hansen, Theresa</td>
<td>(1991) English, Composition, Literature B.A., Santa Clara University; M.A., Stanford University; M.A., University of Iowa</td>
</tr>
<tr>
<td>Harral, Kevin</td>
<td>(2007) Director, Financial Aid B.S., University of California, Davis; M.A., San Francisco State University</td>
</tr>
<tr>
<td>Hawkins, Mary K.</td>
<td>(2000) Adaptive Learning B.A. University of the Pacific; M.S., San Francisco State University</td>
</tr>
<tr>
<td>Hayes, Diane</td>
<td>(1987) Health B.S., M.S., San Jose State University</td>
</tr>
<tr>
<td>Heiser, Meredith</td>
<td>(1991) Political Science B.A., Stanford University; Diploma, Freie Universitat of Berlin, Germany; M.A., Boston University; Ph.D., Johns Hopkins University</td>
</tr>
<tr>
<td>Herman, Ronald</td>
<td>(1997) Photography B.F.A., University of Cincinnati; M.F.A., University of Notre Dame</td>
</tr>
<tr>
<td>Hasselt, Marylou M.</td>
<td>(1990) Counseling B.A., M.S., California State University, Hayward; M.A., Stanford University</td>
</tr>
<tr>
<td>Heslet, Marylou M.</td>
<td>(1990) Counseling B.A., M.S., California State University, Hayward; M.A., Stanford University</td>
</tr>
<tr>
<td>Holcroft-Burns, Carolyn</td>
<td>(2002) Biology B.S.N., Ph.D., University of Kansas</td>
</tr>
<tr>
<td>Horowitz, Kenneth L.</td>
<td>(1977) Dental Programs D.M.D., Tufts University</td>
</tr>
<tr>
<td>Hueg, Kurt</td>
<td>(1995) Director, Marketing &amp; Communications B.A., University of California, Los Angeles</td>
</tr>
<tr>
<td>Huerta, Susana</td>
<td>(2005) English B.A., University of California, Berkeley; M.A., University of California, Santa Cruz</td>
</tr>
<tr>
<td>Hyland, Patricia</td>
<td>(2007) Dean, Faculty &amp; Staff B.S., M.A., San Jose State University</td>
</tr>
<tr>
<td>Jardali, Najwa</td>
<td>(1991) English as a Second Language B.A., University of California, Santa Barbara; M.A., San Francisco State University</td>
</tr>
<tr>
<td>Jinnah, Fatima</td>
<td>(2007) Counseling B.A., University of California, Berkeley; M.S., San Francisco State University</td>
</tr>
<tr>
<td>Johnson, Brenda</td>
<td>(1991) Counseling B.A., California State University, Sacramento; M.A., San Jose State University</td>
</tr>
<tr>
<td>Johnstone, Robert</td>
<td>(2002) Vice President, Instruction &amp; Institutional Research B.A., Stanford University; M.A., San Jose State University; Ph.D., University of Oregon</td>
</tr>
<tr>
<td>Jones, Kay</td>
<td>(2006) Librarian B.A., University of California, Davis; M.S., San Jose State University</td>
</tr>
<tr>
<td>Jordahl, Kate</td>
<td>(1997) Photography B.A., University of Delaware; M.F.A., Ohio University</td>
</tr>
<tr>
<td>Josselyn, Carol</td>
<td>(1987) Communication Studies, English B.A., Occidental College; M.A., Southern Illinois University; Ph.D., University of Washington</td>
</tr>
<tr>
<td>Key, S. Jenene</td>
<td>(1994) Radiologic Technology B.S., M.S., University of Alabama</td>
</tr>
<tr>
<td>Kitajima, Lorraine N.</td>
<td>(1988) Director, Health Services B.S., San Jose State University; M.S., University of California, San Francisco</td>
</tr>
<tr>
<td>Knobel, Marc</td>
<td>(2000) Mathematics A.A., De Anza College; B.A., M.S., San Jose State University</td>
</tr>
<tr>
<td>Knopf, Karl</td>
<td>(1977) Adapted Physical Education B.A., San Diego State University; M.A., San Jose State University; Ed.D., Nova University</td>
</tr>
<tr>
<td>Kornegay, Catherine</td>
<td>(1977) Dental Hygiene A.S., Foothill College; B.A., San Francisco State University; M.A., San Jose State University</td>
</tr>
<tr>
<td>Lam, Phuong My</td>
<td>(2000) Mathematics B.S., Santa Clara University; M.S., California State University, Hayward</td>
</tr>
<tr>
<td>Lane, Kimberly</td>
<td>(2002) Counseling B.A., Kent State University; M.S.S.A., Case Western Reserve University</td>
</tr>
<tr>
<td>Lane, Linda</td>
<td>(1985) English, Reading B.A., M.S., California State University, Hayward</td>
</tr>
<tr>
<td>Lang, Gary</td>
<td>(1988) Physical Education B.S., California State University, Sacramento; M.S., University of Arizona</td>
</tr>
<tr>
<td>Larson, Linda</td>
<td>(1995) Chemistry B.S., California State University, Hayward; Ph.D., University of California, Los Angeles</td>
</tr>
</tbody>
</table>
Lee, Andrew (2005) Counseling
B.A., University of California, Berkeley; M.A., San Jose State University

Lee, David C. Vance (1975) Counseling
B.S., M.A., O.T.C., San Jose State University

B.A., M.A., San Francisco State University

Lee, Keith (1996) Psychology
B.A., University of California, Los Angeles; M.F.A., School of the Art Institute of Chicago

B.S., Stanford University; M.Phil., University of Cambridge

Police Chief
District Police

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

Lin, Eta (2006) Psychology
B.A., M.A., Ph.D., University of California, Santa Barbara

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

MacDougal, Maureen (1999) Veterinary Technology
B.S., Manhattan College; M.S., Pennsylvania State University; D.V.M., Purdue University

Mac Neil, Donald (2008) Adaptive Physical Education
B.A., M.A., San Francisco State 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

B.S., B.A., University of California, San Diego; M.S., Ph.D., Northwestern University

B.S., California State University, Chico; M.S., California State University, Hayward

B.A., Trinity University; M.A., Our Lady of the Lake University, San Antonio

McGriff, Steven (2008) Teacher-in-Residence, Krause Center for Innovation
B.A., Stanford University; M.A., San Jose State University; Ph.D., Pennsylvania State University

McLeod, Bruce (2006) Theatre Arts
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-Beerley, 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) Respiratory Therapy
A.A., Santa Monica College; B.A., M.A., California State University; Long Beach; R.R.T., University of California, Los Angeles Medical Center

Miner, Judy C. (1988) President
B.A., M.A., Lone Mountain College; Ed.D., University of San Francisco

Miyasaki-Ching, Cara (1991) Director, Dental Assisting Program
A.S., Foothill College; B.S., M.S., University of California, San Francisco

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

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
B.A., University of California, Berkeley; M.A., University of California, Berkeley

Nava, Tobias (2005) Counseling
B.A., M.A., San Jose State University

B.S., M.S.B.A., San Francisco State University

Norick, Amanda (2005) Chemistry
B.S., Western Oregon University; M.S., Vanderbilt University

Oburn, Ronald K. (1975) Physical Education
B.S., M.A., California State Polytechnic University

Ong, Teresa (2007) Learning Disabilities
B.A., National University of Singapore; M.A., New York University; M.A., University of San Francisco

Orrell, Eloise J. (1984) Interim Division Dean, Biological & Health Sciences
B.S., University of San Francisco; M.S., Midwestern State University

Osterlock, Leonis (2002) Director, Pharmacy Technology Program
B.S., University of the Pacific

O'Loughlin, Rita A. (1989) Adapted Physical Education
A.A., Orange Coast College; B.A., California State University, Chico; M.S., California State University, Hayward

B.S., Princeton University

Park Lee, Young Hee (2008) Mathematics
B.S., Kyungnam University, Korea; M.S., Ph.D., Korea Advanced Institute of Science & Technology

B.A., M.A., San Jose State University

Paye, Anne M. (1989) English
B.A., San Jose State University; M.A., Stanford University

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

Plowe, Irving (1990) Physical Education
A.A., De Anza College; B.A., M.A., San Jose State University

Pouncl, Matais D. (2007) Director, Extended Opportunity Program & Services
B.S., Southern University, Baton Rouge; M.A., California State University, Long Beach

Pratt, Keith (1998) English as a Second Language
B.A., California State University, Hayward; M.A., San Jose State University

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
Serna, Leticia
B.A., University of Puerto Rico; M.A., Brown University

Riggs, Don (2001)
English, Creative Writing
B.A., The Union Institute, Cincinnati;
M.F.A., University of Iowa

Rosenberg, Shanan (2002)
Physical Education, Men’s Basketball Coach
B.A., University of California, Davis; M.A., California State University, Chico

Rubie, Andrew (2008)
Art, Ceramics
B.F.A., Kansas City Art Institute;
M.F.A., Louisiana State University

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
R.S.L.A., Iowa State University;
M.A., University of Iowa

Sawk, 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, Ernest (2005)
Psychological Services
B.A., University of the Pacific; M.S.W., University of California, Berkeley

Schultheis, Lisa (2002)
Biography
B.S., University of Arizona; Ph.D., University of California, Berkeley

Schultz, Gillian (2007)
Biography
B.A., Boston University; M.A., Ph.D., University of California, Riverside

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

Shaw, Barbara (1989)
Physical Education
M.F.A., New York University; M.S., Stanford 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

Physical Education, Football Coach
B.S., University of Nevada-Reno; M.A., U.S. International University

Sprague, Phyllis (1998)
Director, Dental Hygiene Program
A.S., College of the Redwoods; A.S., Foothill College; A.S., Canada College; B.A., St. Mary’s College; M.A., San Jose State University

Sproul, Janet (2001)
Learning Disabilities/Special Education
B.A., Michigan State University; M.Ed., University of Washington

Stanley, Brian H. (1980)
Mathematics, Engineering
B.S.C., University of Birmingham, England; M.S., University of Kansas; M.S., Santa Clara University

Starr, Paul (1999)
Interim Division Dean, Language Arts
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

Svetich, Kella (2005)
English
B.A., M.A., University of Nevada, Reno; Ph.D., University of California, Davis

Swett, Denise (2007)
Dean, Middlefield & Evening Campuses
B.A., M.A., San Jose State University; Ph.D., University of San Francisco

Taketa, Victoria (1988)
Counseling
B.A., M.A., San Jose State University

Tang, Victor (2007)
Chemistry
B.S., University of California, Berkeley; M.S., Ph.D., University of California, San Diego

Tambling, Bruce (2007)
Music Technology
B.A., Charter Oak State College

Tapia, Brian (2006)
Philosophy
B.A., M.A., San Diego State University

Thomas, Jeane (2007)
Child Development
B.A., San Jose State University; M.A., Pacific Oaks College

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

Trapp, Caldwell, Kristin (2001)
Marketing
B.A., University of Texas; M.F.A., School of Visual Arts, New York

Urrutia-Lopez, Rebecca (2000)
Coordinator, Cooperative Work Experience Education
B.A., 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

Villanueva, Voltaire (2007)
Counseling
B.A., M.A., San Francisco State University; M.A., University of San Francisco

Violett, Glenn (2006)
Business
B.A., M.A., Golden Gate University

Visas, Brenda (2008)
Director, Facilities & Special Projects
B.S., San Jose State University

Voyce, Warren (2007)
Athletic Trainer, Physical Education & Athletics
B.S., M.S., California State University, East Bay

Wang, Xinjuan (1991)
Physics, Engineering
B.S., Zhejiang University, People’s Republic of China; M.S., University of Toledo

Watkins, Sandra (1998)
Computer Science
B.A., Western Illinois University; M.S., Iona College

Wheeler, Bonny (2000)
Director, Radiologic Technology Program
B.A., M.A., San Jose State University

White, Anita (1999)
Computer Information Systems
B.A., University of California, San Diego; M.B.A., San Francisco State University

Wilkes, Pamela (2005)
Librarian
B.A., University of California, Santa Cruz; M.L.I.S. University of California, Berkeley

Will, Marguerite (Mimi) (1976)
Computer Information Systems
B.A., M.A., San Francisco State University; M.A., San Jose State University

English, Creative Writing Conference
B.A., M.A., University of the Pacific, Stockton

Wong, Rosa (1991)
English as a Second Language
B.A., San Francisco State University; M.A., University of Michigan

Wong, Russell (2006)
Learning Disabilities
B.A., University of San Francisco State University; M.A., Santa Clara University

Division Dean, Computers, Technology & Information Systems
B.A., University of California, Riverside; M.A., California State University, Fresno

Woocock, Joseph (1987)
Political Science
B.A., Boston College; M.A., Ph.D., Stanford University

Wu, Tilly Liu (2000)
Counseling
B.S., M.A., San Jose State University

Yamamoto, Judy (2008)
Dental Radiology
B.A., M.S., San Francisco State University

History
B.A., University of California, Davis; M.A., San Jose State University

History
B.A., University of California, Davis; M.A., San Jose State University
Emeritus Faculty

Abbey, William L. (1958)  
Physical Education & Athletics  
B.S., University of Oregon; M.A., San Jose State University

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

Adler, Richard R. (1962)  
Biography  
B.S., Michigan State University; M.Ed., Wayne State University; M.S., University of Michigan

Anderson, Dorothy A. (1961)  
Business  
B.S., University of Nebraska; M.A., Stanford University

Atchison, James A. (1964)  
Psychology  
B.A., Saint Mary's College; M.A., New Mexico Highlands University; C.G. Institute, Zurich, Switzerland

Barnett, Elyse (1992)  
Anthropology  
B.A., Brandeis; Ph.D., Stanford University

Bell, Mary D. (1992)  
French  
B.A., University of California, Los Angeles; M.A., Tübingen University

Berthiaume, R. Dennis (Denny)  
(1970)  
English  
B.A., M.A., San Diego State University

Bonneau, B. Leon (1968)  
Astronomy  
B.A., San Jose State University; M.A., California State University; Northridge; M.Ed., San Francisco State University

Bray, D. Jene (1964)  
Counseling  
B.A., M.A., Arizona State University

Broadwin, John (1990)  
Librarian  
B.A., Stanford University; M.L.S., University of California, Los Angeles

Broussard, Charles C. (1967)  
Counseling  
B.A., Louisiana State University; M.A., San Francisco State University

Brugueras, Jorge (1972)  
Reference Librarian  
B.A., University of Pittsburgh; M.I.S. Carnegie Institute of Technology

Bryan, William J. (1965)  
Music  
B.S., St. Louis Institute of Music; M.S.Ed., University of Southern California

Carr, Janice (1989)  
Mathematics  
A.B., Colby College; A.M.T., Harvard University

Campbell, Bob C. (1963)  
Physical Education: Recreation Coordinator  
B.S., M.S., State University of Iowa

Chavez, Robert A. (1970)  
Counseling, Midfielder Campus  
B.A., M.A., University of New Mexico

Chivington, Thomas H. (1966)  
Physical Education, Tennis  
A.A., Ventura College; B.S., Wyoming University; M.A., Washington State University

Chung, Lilia (1974)  
English as a Second Language  
A.A., Holy Ghost College; B.Ph., M.A., University of Santo Tomas; Ph.D., Syracuse University

Clark, Nancy Howe (1977)  
Director, Children's Programs  
B.A., M.A., Stanford University

Cole, Jerry R. (1967)  
Men's Basketball, Physical Education  
B.A., M.A., University of Denver; Ed.D., Colorado State College

Connor, Ann Wilkinson (1965)  
Associate Dean, Instruction; Off-Campus Programs; Interchange  
B.A., M.A., M.S., San Francisco State University

Conom, Tom (1982)  
Manager, College Police & Safety Services  
B.A., M.A., San Francisco State University

Critchfield, Frederick (1960)  
Director, Economic Development, Grants, Apprenticeship Programs  
B.S., Utah State University; M.A., Stanford University

Cross, Truman B. (1970)  
History  
B.A., Portland State College; M.A., George Washington University; Ph.D., Indiana University

Day, Diane D. (1964)  
English  
B.A., U.C. Berkeley; M.A., Sacramento State University

De Luna, Yaya (1971)  
History, Sociology  
B.A., M.A., San Jose State University; Ph.D., University of Southern California

De Palma, Barton (1962)  
Art, Film  
B.F.A., M.F.A., University of Pennsylvania

Dillon, William M. (1992)  
Director, Aviation Program  
B.S., Cheney State University; M.S., California State University, Hayward; A.T.P. C.S.I.

Dong, Raymond P. (1976)  
Electronics  
B.S., Tri-State University; M.A., Michigan State University

Dowling, W. Lescher (1967)  
Photography  
B.A., University of California, Santa Barbara; M.A., San Diego State University

Dumitru, John (1966)  
Anthropology, Philosophy, Sociology  
B.S., M.A., Michigan State University

Ehly, William L. (1961)  
Spanish  
B.A., M.A., University of Denver

Electronics Museum  
B.A., Ph.D., University of California, Los Angeles

Ettinger, Stanley L. (1966)  
Graphic Design  
B.F.A., Pratt Institute; M.A., New York University

Fairchild, James R. (1966)  
Football, Physical Education  
B.A., M.A., College of the Pacific

Feeter, J. William (1975)  
Animal Health Technology  
B.S., D.V.M., Kansas State University

Felix, Raul (1973)  
Work Experience Coordinator, Cooperative Education  
B.A., M.A., San Jose State University

Felter, James M. (1964)  
English  
B.A., San Francisco State University; M.A., University of California, Berkeley

Fish, Ruth Anne (1959)  
Mathematics  
B.S., M.S., University of Arizona

Fisher, Carl J. (1964)  
Accounting, Business  
B.A., M.B.A., Stanford University

Ford, John Rene (1967)  
Drama, Speech  
A.A., Santa Ana College; B.A., U.C. Santa Barbara; M.A., San Jose State University

Gallo, Joseph D. (1963)  
English  
A.A., Fullerton Junior College; B.A., M.A., San Jose State University; D.Arts., University of Pacific

Gause, Mary Jane Powell (1977)  
Computer Applications  
B.A., University of Washington; M.A., University of California, Berkeley

Gause, Richard A. (1964)  
Art  
B.A., M.A., University of California, Berkeley

Gonzales, Richard R. (1972)  
Counseling  
B.A., San Jose State University; M.A., California Polytechnic State University, San Luis Obispo

Gonzalez, Ismael (1987)  
Director, EOPS-CARE  
A.A., West Valley College; B.A., California State University Hayward; M.A., University of San Francisco

Grenbeaux, Jean M. (1965)  
English, Education  
B.A., San Jose State University; M.A., Stanford University

Gutter, Malcolm D. (1962)  
Economics  
B.A., City College of New York; M.A., University of California, Berkeley

Handa, Judith H. (1973)  
Dean, Instruction & Student Affairs  
B.A., M.S., University of Hawaii

Harkin, Arthur P. (1963)  
Biography  
A.A., Compton College; B.A., University of California, Berkeley; M.S., University of Utah

Harvey, Alan L. (1990)  
Vice President, Educational Resources & Instruction  
B.A., San Francisco State University; M.A., Holy Names College

Hasling, John (1966)  
Speech, Broadcasting  
B.A., M.A., Sacramento State University

Hawkins, Mark F. (1965)  
English, Humanities  
B.A., Ph.D., University of California, Berkeley, M.A., San Francisco State University

Hawley, Gene M. (1967)  
Physical Education  
A.A., Everett Junior College; B.A., M.A., San Francisco State University

Heinz, Duane (1970)  
Chemistry  
A.A., Hartnell College; A.B., Sacramento State University; Ph.D., University of California, Davis
Hendrickson, Maribeth (1974) Philosophy
B.A., M.A., San Jose State University; Ph.D., Stanford University; J.D., University of California, Hastings College of the Law

Henning, Richard L. (1967) Dean, Community Services, Development & Public Relations
A.A., Taft College, B.A., M.A., San Jose State University; Ed.D., University of Southern California

Hicks, Elizabeth M. (1972) Aviation
B.A., San Jose State University

Holler, Gordon W. (1968) Art
B.A., University of Nebraska; M.A., University of California, Berkeley

Hurd, Warren (1998) Dean, Faculty & Staff
B.S., Wayne State University; M.S., De Paul University; Ed.D., Northern Illinois University

Hutchinson, Clarence G. (1966) Counseling
B.A., M.S., University of Southern California

B.F.A., Pratt Institute; M.A., Teachers College, Columbia University

Kane, David H. (1968) Business, Office Technology, Computer Information Systems
B.B.A., Woodbury University; B.A., California State University, Los Angeles; M.A., Teachers College, Columbia University

Ketels, Henry E. (1967) Physical Education, Track
B.S., M.S., University of Southern California

Kingson, Robert C. (1965) English
B.A., M.A., University of California, Los Angeles; Ph.D., University of California, Berkeley

Klee, John B. (1961) French, Spanish
B.A., M.A., University of Southern California

Kohs, Gerald D. (1965) English
B.A., Eastern Michigan University; M.A., University of Michigan

Konigsberg, Charles W. (1973) Ornamental Horticulture
B.S., M.A., California Polytechnic State University, San Luis Obispo

Lindauer, Charles (1997) Mathematics
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

B.S., San Jose State University; M.B.A., Santa Clara University

Long, Bernard F. (1965) Physics
A.A., Memorial University College, St., John’s Newfoundland; B.S., M.S., Dalhousie University, Halifax, Nova Scotia; M.S., Fordham University

B.A., University of Illinois; M.A., Stanford University

Lowe, Irel D. (1967) Associate Dean, Administrative Services
B.S., M.Ed., University of Idaho; Ed.D., Brigham Young University

Lynn, Sandy (1989) Mathematics
B.A., M.A., University of Oregon

Macadangdang, Fortunato (1973) Counseling, ROP's
B.A., Brigham Young University; M.S.W., San Jose State University

Maitzman, Charlene (1986) Adaptive Learning, STEP Program Coordinator
B.A., San Francisco State University; M.A., Santa Clara University; Ed.D., University of San Francisco

Mankin, Linda R. (1964) Music
B.S., New York University; M.A., Stanford University

B.A., M.A., San Francisco State University; Ph.D., University of California, Berkeley

Manoogian, Norman V. (1965) Physical Education
B.A., M.A., Stanford University

Manville, Wallace C., Jr. (1977) Special Education
B.S., University of Illinois; M.S., San Francisco State University

Marvin, Denos P. (1965) Speech
B.A., Mexico City College; M.A., Teachers College, Columbia University

Maus, Walter S. (1958) Business
B.A., San Jose State University; M.A., Stanford University

McCarty, Lois (1967) Sociology, Psychology
B.A., M.S., San Jose State University

McCull, Ernest (Joe) (1978) Philosophy
B.A., M.A., Loyola University

McDonald, Marilyn M. (1984) Librarian, Archivist
B.A., M.A., Stanford University; M.L.S., San Jose State University; M.B.A., Golden Gate University

McHargue, Mike (1977) Counseling, Honors Institute, Staff Development
B.A., Occidental College; M.A., California State University, Northridge; Ph.D., Stanford University

McLanathan, Mary C. (1959) Division Dean, Biological & Health Sciences

McNeill, Nayan (1961) English
A.A., Santa Ana College; B.A., M.A.; Ph.D., U.C. Berkeley

Mendrinos, Roxanne (1991) Librarian, Library Technology
B.A., Dickinson University; M.L.S., Simmons Graduate School, Boston; Ph.D., Boston College

B.A., Hunter College; M.A., San Jose State University

Miller, Charles J. (1969) Mathematics
B.S., Iowa State University; M.A., University of South Dakota

Mishel, Joyce (1975) Travel Careers
B.A., Cornell University; M.A., New York University

Moffat, Glenn P. (1964) Biology
B.A., Science Education, B.S., Biology, Western Washington University; M.S., University of Utah; M.A., San Jose State University

Morris, Victor (1967) Music
B.M., M.M., Manhattan School of Music

Mortarotti, John L. (1963) Division Dean, Fine Arts
B.M., University of the Pacific; M.A., University of Washington

Moss, Lloyd K. (1966) Chemistry
B.S., University of California, Los Angeles; Ph.D., Stanford University

Mraz, Doyne J. (1967) Drama
A.A., Sacramento City College; B.A., M.A., University of the Pacific; Ph.D., University of Southern California and Stanford University

B.A., Coe College; M.A.; D.M.A., Stanford University; Dipl., Hochschule für Musik, Vienna

Nudelman, Dorothea (1965) English, Speech
B.A., Hunter College; M.A., Arizona State University

Olsen, Marky (1968) Counseling
A.A., Colorado Women’s College; B.A., Colorado State College; M.A., San Jose State University; M.A., Santa Clara University

B.S., M.A., California State Polytechnic University

Park, King T. (1965) Chemistry, Computer Information Systems
B.A., M.A., Rice University

Parks, Jack D. (1968) Football, Physical Education, Track
A.A., Riverside College; B.A., M.A., University of California, Los Angeles

Paulison, Marion (1986) Photography
B.A., Stanford University; M.A., San Francisco State University

Patterson, William R. (1971) Vice President, Institutional Research & Instruction
B.S., California State Polytechnic University; M.A., Santa Clara University; Ed.D., University of Southern California

Patz, Penny (1989) Interim President
B.S., Ball State University; M.S., Utah State University; Ed.D., University of La Verne

Pauling, Kay (1987) Biology
B.A., Ph.D., University of California, Riverside

Pavic, Mary Ann (1975) Division Dean, Biological & Health Sciences
A.A., Sacramento City College; B.A., M.A., San Jose State University

B.S., University of Nebraska; M.A., San Jose State University

Pon, Donald (1971) Chemistry, Computer Information Systems
B.S., M.S., Stanford University

Proser, Herbert (1982) Semiconductor Processing
B.A., Columbia College; M.A., Columbia University; Ph.D., Stanford University

Quinn, James J. (1970) English
B.A., M.A., San Jose State University

Foothill College 2008–2009 www.foothill.edu
<table>
<thead>
<tr>
<th>Name</th>
<th>Degrees and Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roe, Stuart J.</td>
<td>(1964) Broadcasting, Film, Television; B.A., M.A., University of California, Los Angeles; M.S., Indiana University</td>
</tr>
<tr>
<td>Rosenthal, Miriam P.</td>
<td>(1970) Dental Assisting; A.A., Foothill College; B.S., University of San Francisco</td>
</tr>
<tr>
<td>Roth, Irvin M.</td>
<td>(1959) History; B.A., Occidental College; M.A., Stanford University</td>
</tr>
<tr>
<td>Rotty, Elaine</td>
<td>(1981) Physical Education, Intercollegiate Women's Golf; B.S., Winona State; M.S., Arizona State University</td>
</tr>
<tr>
<td>Rouse, Lawrence D.</td>
<td>(1975) Psychology; B.A., M.A., San Jose State University; Ph.D., Pacific Graduate School of Psychology</td>
</tr>
<tr>
<td>Rude, D. Allen</td>
<td>(1966) Health; B.S., M.S., Southern Illinois University</td>
</tr>
<tr>
<td>Ruelas, Enrique</td>
<td>(1978) Accounting, Business; B.A., San Francisco State University; M.A., San Jose State University</td>
</tr>
<tr>
<td>Ryan, Lucia Ann</td>
<td>(1990) Counseling, International Students; B.A., St. Lawrence University; M.A., Santa Clara University</td>
</tr>
<tr>
<td>Scheiding, Herman G.</td>
<td>(1967) Journalism; B.A., M.A., University of Denver</td>
</tr>
<tr>
<td>Schobert-Jones, G.</td>
<td>(1966) German; B.A., M.A., University of Utah</td>
</tr>
<tr>
<td>Schumacher, Barbara A.</td>
<td>(1965) Physical Education; B.S., Douglass College, Rutgers University; M.A., University of California, Berkeley; M.A., Santa Clara University</td>
</tr>
<tr>
<td>Seelbach, Eugene</td>
<td>(1975) Mathematics; B.A., Blackburn College; M.A., Ph.D., University of Wyoming</td>
</tr>
<tr>
<td>Seger, Carolyn B.</td>
<td>(1975) Counseling; B.S., M.S., San Jose State University; L.V.N.</td>
</tr>
<tr>
<td>Shaner, Bryan</td>
<td>(1978) Counseling; B.A., Raymond College; M.S., San Jose State University</td>
</tr>
<tr>
<td>Sherrill, Richard R.</td>
<td>(1959) Mathematics, Physics; B.S., University of California, Berkeley; M.A., San Jose State University</td>
</tr>
<tr>
<td>Sienna, Angel M.</td>
<td>(1972) Chemistry, Counseling, Mathematics, Physics; B.S., California State University, Hayward; M.A., M.S., San Jose State University</td>
</tr>
<tr>
<td>Silveria, William</td>
<td>(1986) Computer Information Systems; B.S., University of California, Berkeley; M.S., Ph.D., University of Hawaii</td>
</tr>
<tr>
<td>Sommerfield, Richard R.</td>
<td>(1968) Physics; B.S., M.S., University of Arizona</td>
</tr>
<tr>
<td>Spicer, Mona</td>
<td>(1979) Dental Hygiene; B.A., M.A., San Francisco State University</td>
</tr>
<tr>
<td>Strand, Tomas F.</td>
<td>(1969) Mathematics, Engineering; B.S.E.E., Massachusetts Institute of Technology; M.S.E.E., Stanford University</td>
</tr>
<tr>
<td>Swenson, Daniel K.</td>
<td>(1995) Director, Environmental Horticulture &amp; Design Program; B.S., Oregon State University; M.I.A., California Polytechnic University, Pomona; M.B.A., Sonoma State University</td>
</tr>
<tr>
<td>Summa, Terry</td>
<td>(1973) Music; B.A., San Francisco State University; M.A., Holy Names University</td>
</tr>
<tr>
<td>Sutherland, Richard</td>
<td>(1967) Librarian; B.A., Michigan State University; M.S., University of California, Berkeley; M.I.S., University of California, Berkeley</td>
</tr>
<tr>
<td>Sutter, E. Eugene</td>
<td>(1962) History, Political Science; B.Ed., Illinois State University; M.A., University of Michigan</td>
</tr>
<tr>
<td>Swenson, Bruce P.</td>
<td>(1967) Dean, Instruction &amp; Educational Resources; B.S., Stanford University; M.S., University of Wisconsin; Ph.D., University of California, Berkeley</td>
</tr>
<tr>
<td>Taffae, Eleanor</td>
<td>(1979) Psychological Services; B.A., Hunter College; M.A., Ph.D., University of Connecticut</td>
</tr>
<tr>
<td>Tankersley, Raymond S.</td>
<td>(1965) Counseling; A.A., City College of San Francisco; B.A., University of California, Berkeley; M.A., Stanford University</td>
</tr>
<tr>
<td>Thompson, Robert J.</td>
<td>(1959) Business, Data Processing; B.A., California State University; Chico; M.A., Ed.D., Stanford University</td>
</tr>
<tr>
<td>Thompson, William</td>
<td>(1974) Business, Marketing; A.A., University of Minnesota; B.S., San Diego State University; M.B.A., Golden Gate University</td>
</tr>
<tr>
<td>Torres, Rudy</td>
<td>(1969) Psychology; A.A., Foothill College; B.A., M.A., San Jose State University; Graduate Intern, University of California, Berkeley</td>
</tr>
<tr>
<td>Tuell, James</td>
<td>(1981) CTS, Data Communication; B.A., San Jose State University; M.S., Golden Gate University</td>
</tr>
<tr>
<td>Umbre, Sandra</td>
<td>(1980) Counseling; B.A., University of California; Santa Cruz; M.S. California State University, Hayward</td>
</tr>
<tr>
<td>Urmans, Richard</td>
<td>(1974) Respiratory Therapy; A.A., Foothill College; B.A., University of California, Berkeley</td>
</tr>
<tr>
<td>Verburg, Lydia L.</td>
<td>(1962) Health Counselor; B.A., University of California; M.P.H., University of California School of Public Health; M.D., New York Medical College</td>
</tr>
<tr>
<td>Wagner, William S.</td>
<td>(1959) Political Science; B.A., University of California; Santa Barbara; M.A., Columbia University</td>
</tr>
<tr>
<td>Walker, Lee R.</td>
<td>(1959) Mathematics; B.S., B.A., M.S., University of Southern California</td>
</tr>
<tr>
<td>Watson, Carol</td>
<td>(1978) Adaptive Learning; M.S., Hofstra University</td>
</tr>
<tr>
<td>Watts, June</td>
<td>(1967) Acquisitions Librarian; B.A., University of Arizona; B.A., Holy Names College, Spokane; M.A., University of Denver</td>
</tr>
<tr>
<td>Wirth, Jean</td>
<td>(1987) Counseling, Articulation, Curriculum Officer; A.A., A.B., University of California, Berkeley; M.A., Ph.D., Ohio State University</td>
</tr>
<tr>
<td>Zuhoen, Otto</td>
<td>(1959) German; Abitur Artland Gymnasium; D Jur, University of Heidelberg</td>
</tr>
</tbody>
</table>
Catalog 2008-2009  www.fothill.edu
Hernandez, Lyliana  
Services  
Extended Opportunity Program & EOPS Specialist

Henderson, April  
Adaptive Learning  
Test Proctor

Hernandez, Lylia  
Outreach Specialist  
Student Support Program & Services

Hernandez, Tomas  
Apprentice I—Plumber  
Operations

Hinds, Susanne  
Library Technician, Senior  
Library

Hodges, Pamela  
Library Technician, Senior  
Library

Hollins, Wilbert  
Instructional Associate  
Computers, Technology & Information Systems

Hunter, Elizabeth  
Division Administrative Assistant  
Physical Education & Human Performance

Ishikawa, Akemi  
Administrative Assistant II  
Technology & Instruction

Jen, Rosalinda  
Division Administrative Assistant  
Facilities/Physical Education & Human Performance

Johnson, Alice  
Math Center Assistant  
Mathematics

Johnson, Anne  
Program Coordinator I  
Tutorial Center

Johnson, Eric  
Radio Station Coordinator  
Fine Arts & Communication

Jung, Henry  
Admissions & Records Supervisor  
Admissions & Records

Kelly, Anthony  
Facilities & Equipment Assistant  
Physical Education & Human Development

Khoala Or, Orawan  
Cashier, Senior  
Counseling & Student Services

Kikoshima, Helen  
Administrative Assistant II  
Foothill Global Access

Kim, Kyong  
Instructional Web/Multimedia Assistant  
ETUDES Consortium Project

Kitagawa, Anthony  
Ceramics Technician  
Fine Arts & Communication

Knepf, Richard  
Photography Laboratory Technician  
Fine Arts & Communication

Kolesnikova, Viktoriya  
Program Coordinator II  
International & Distance Learning

Kreiss, Brockman  
Head Grounds Gardener  
Buildings & Grounds

Landes, Norm  
Instructional Associate  
Language Arts

Lambrecht, Donna  
Administrative Assistant Senior  
Extended Opportunity Program & Services

Largent, Allison  
Administrative Assistant II  
International & Distance Learning

Levine, Arthur  
Administrative Assistant Senior  
International & Distance Program

Liang, Jenny  
PSME Lab Instructional Coordinator  
Physical Sciences Math & Engineering

Luu, Lily  
EOPS Program Specialist  
Extended Opportunities Programs & Services

Maestas-Hooihuli, Rose  
Instructional Associate  
Language Arts

Maheshwari, Rashmi  
Learning Systems Project Analyst  
ETUDES Consortium Project

Mangiameili, Christine  
Division Administrative Assistant  
Biological & Health Sciences

Marome, Tahiya  
Technology Training Specialist  
Foothill Global Access

Mathis, Oudia  
Admissions & Records Assistant  
Admissions & Records

Mauss, Joseph  
Police Dispatcher  
District Safety & Security

McAlpin, Judi  
Campus Supervisor  
Middlefield Campus

McKellar, Charlie  
Program Coordinator II  
Middlefield Campus

McLeod, Norman  
Custodian II  
Operations

McCaron, Jean  
Theatre & Fine Arts Assistant  
Fine Arts & Communication

McMahon, Barbara  
Biological/Biotechnology Lab Technician  
Biological & Health Sciences

Meade, Jeff  
Police Officer  
District Police & Safety Services

Mendonca, Eileen  
Secretary  
Adaptive Learning

Miller, Darnell  
Custodian III  
Buildings & Grounds

Mines, Sherri  
Administrative Assistant Senior  
International Education

Mitchell, Stephen  
Program Coordinator II  
Student Activities

Mondik, Patricia  
Financial Aid Assistant  
Financial Aid

Moore, Christina  
Theatre & Fine Arts Facilities Assistant  
Fine Arts & Communication

Moore, Diane W.  
Accounting Assistant  
Bookstore

Muntean, Nicolae  
Postal Services Assistant  
Educational Resources & Instruction

Nelson, Leif  
Police Officer  
District Safety & Security

Nguyen, Amanda  
Police Officer  
District Safety & Security

Noone, Lesley  
Division Administrative Assistant  
Language Arts

Nuñez, Corinne  
Administrative Assistant II  
Instruction & Institutional Research

Oeh, Karen  
Program Coordinator I  
Career Center

Olsen, Scott  
Workstation & Systems Support Technician II  
Educational Technology Services

Olsen, Cindy  
Division Administrative Assistant  
Fine Arts & Communication

Paragas, Bernie  
Workstation Support Technician II  
Educational Technology Services

Parker, Pamela  
Graphic Design Technician  
Marketing & Communications

Patel, Bhavi  
Administrative Assistant I  
Faculty & Staff

Perez, Denise  
Academic Scheduling Coordinator  
Educational Resources & Instruction

Pham, Hao  
Admissions & Records Coordinator  
Middlefield Campus

Pingali, Sirisha  
Accountant  
Student Affairs & Activities

Pratt, Amy  
Library Technician, Senior  
Library

Quesaca, Ernestine  
Police Dispatcher  
District Police & Safety Services

Quimby, Roger  
Adapted PE Class Assistant II  
Adapted Physical Education

Quiros, Amelia  
Bookstore Shipping & Receiving  
Bookstore

Ramos, Mario  
Computer Lab Operations Coordinator  
Computers, Technology & Information Systems

Rando, Susan C.  
Bookstore Customer Service Assistant  
Bookstore

Razzouki, Zarnina  
Administrative Assistant I  
Institutional Research & Instruction

Renteria, Matilda  
Financial Aid Coordinator  
Financial Aid

Respicio, Manuel  
Police Officer  
District Police & Safety Services

Riggins, Julie  
Instructional Associate  
Media Center

Riley, William  
Police Officer  
District Police & Safety Services

Robinson, Linda  
Instructional Associate  
Media Center

Rocha, Francisco  
Police Officer  
District Police & Safety Services

Rodrigues, Carlos  
Custodian  
Buildings & Grounds

Rodriguez, Faustino  
Custodian  
Buildings & Grounds

Rodriguez, Jorge  
EOPS Specialist, Senior  
Extended Opportunity Programs & Services

Rodriguez, Lucy  
Administrative Assistant, Senior  
Instruction & Institutional Research

Rosenthal, Donna  
Box Office Administrative Assistant  
Fine Arts & Communication

Rosenthal, Eric  
Admissions & Records Assistant  
Admissions & Records
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ruffinelli, Alvaro</td>
<td>Laboratory Technician</td>
<td>Computers, Technology &amp; Information Systems</td>
</tr>
<tr>
<td>Ruiz, Cipriano</td>
<td>Custodian I</td>
<td>Operations</td>
</tr>
<tr>
<td>Satana, Pedro</td>
<td>Custodian</td>
<td>Custodial</td>
</tr>
<tr>
<td>Schrage, Paul</td>
<td>Performing Arts Coordinator &amp; Staff Pianist</td>
<td>Fine Arts &amp; Communication</td>
</tr>
<tr>
<td>Schreiber, Shelley</td>
<td>Web &amp; Print Design Coordinator</td>
<td>Marketing &amp; Communications</td>
</tr>
<tr>
<td>Schukraft, Michelle</td>
<td>Athletic Trainer</td>
<td>Physical Education &amp; Human Performance</td>
</tr>
<tr>
<td>Seguritan, Florence</td>
<td>Administrative Assistant</td>
<td>Celebrity Forum</td>
</tr>
<tr>
<td>Shields, Tita</td>
<td>Administrative Assistant &amp; Instruction</td>
<td>Bookstore</td>
</tr>
<tr>
<td>Sias, Roberto</td>
<td>Bookstore Courseware Coordinator</td>
<td>Bookstore</td>
</tr>
<tr>
<td>Slayton, Virginia</td>
<td>Admissions &amp; Records Assistant</td>
<td>Admissions &amp; Records</td>
</tr>
<tr>
<td>Smith, Karen</td>
<td>Library Technician, Senior Library</td>
<td></td>
</tr>
<tr>
<td>Solorio, Matt</td>
<td>Police Officer</td>
<td>District Safety &amp; Security</td>
</tr>
<tr>
<td>Solorzano, Jesus</td>
<td>Grounds Gardener I</td>
<td>Operations</td>
</tr>
<tr>
<td>Stenger, Annette</td>
<td>Executive Assistant</td>
<td>President’s Office</td>
</tr>
<tr>
<td>Stoup, Greg</td>
<td>College Researcher</td>
<td>Educational Technology Services</td>
</tr>
<tr>
<td>Sum, Steven</td>
<td>Alternative Media Specialist</td>
<td></td>
</tr>
<tr>
<td>Tallirn, Murthy</td>
<td>Learning Systems Project Analyst ETUDES Consortium Project</td>
<td></td>
</tr>
<tr>
<td>Tapia, Ariel</td>
<td>Gardener</td>
<td>Buildings &amp; Grounds</td>
</tr>
<tr>
<td>Terranova, Cheryl</td>
<td>Admissions &amp; Records Assistant</td>
<td>Admissions &amp; Records</td>
</tr>
<tr>
<td>Thomas, Deborah</td>
<td>Custodian I</td>
<td>Operations</td>
</tr>
<tr>
<td>Thomas, Lori</td>
<td>Media Relations &amp; Publications Coordinator</td>
<td>Marketing &amp; Communications</td>
</tr>
<tr>
<td>Thoppy, Mallika</td>
<td>Learning Systems Project Analyst ETUDES Consortium Project</td>
<td></td>
</tr>
<tr>
<td>Thornton, Kay</td>
<td>Theatre &amp; Fine Arts Facilities Coordinator</td>
<td>Fine Arts &amp; Communication</td>
</tr>
<tr>
<td>Tran, David</td>
<td>Workstation Support Technician II</td>
<td>Educational Technology Services</td>
</tr>
<tr>
<td>Tran, Long</td>
<td>Workstation Support Technician II</td>
<td>Educational Technology Services</td>
</tr>
<tr>
<td>Tran, Nhng</td>
<td>Program Coordinator I</td>
<td>Adaptive Learning</td>
</tr>
<tr>
<td>Turmelie, Art</td>
<td>Program Coordinator, Senior</td>
<td>International &amp; LINC Programs</td>
</tr>
<tr>
<td>Turner, Kathleen</td>
<td>Testing Technician</td>
<td>Placement Services</td>
</tr>
<tr>
<td>Vandercook, John</td>
<td>Technology Services Supervisor</td>
<td>Educational Technology Services</td>
</tr>
<tr>
<td>Vela, Israel</td>
<td>Custodian</td>
<td>Buildings &amp; Grounds</td>
</tr>
<tr>
<td>Vela, Jenny</td>
<td>Instructional Associate</td>
<td>Computers &amp; Information Systems</td>
</tr>
<tr>
<td>Vines, Michael</td>
<td>Gardener</td>
<td>Buildings &amp; Grounds</td>
</tr>
<tr>
<td>Wall, Peter</td>
<td>Graphic Design Technician</td>
<td>Marketing &amp; Communications</td>
</tr>
<tr>
<td>West, Kerry</td>
<td>Administrative Assistant I</td>
<td>Biological &amp; Health Sciences</td>
</tr>
<tr>
<td>White, Chris</td>
<td>Program Coordinator II</td>
<td>Marketing &amp; Communications</td>
</tr>
<tr>
<td>Wilkendorf, Marlene</td>
<td>Program Coordinator I ETUDES Consortium Project</td>
<td></td>
</tr>
<tr>
<td>Witkop, Inna</td>
<td>Financial Aid Outreach Assistant</td>
<td>Financial Aid</td>
</tr>
<tr>
<td>Wong, Laureen</td>
<td>Campus Budget/Enrollment Analyst</td>
<td>Educational Resources &amp; Instruction</td>
</tr>
<tr>
<td>Wonpat, Charlene</td>
<td>Adaptive Learning Assistant II</td>
<td>Adaptive Learning &amp; Disability Services</td>
</tr>
<tr>
<td>Wood, Pat</td>
<td>Cashier, Senior</td>
<td>Admissions &amp; Records</td>
</tr>
<tr>
<td>Wu, Anna</td>
<td>Laboratory Technician</td>
<td>Physical Sciences, Mathematics &amp; Engineering</td>
</tr>
<tr>
<td>Xu, Wen</td>
<td>Accounting Assistant</td>
<td>Educational Resources &amp; Instruction</td>
</tr>
<tr>
<td>Xuereb, Carmela</td>
<td>Veterans Program Coordinator</td>
<td></td>
</tr>
<tr>
<td>Zuniga, Paul</td>
<td>Instructional Associate</td>
<td>IDEA Center</td>
</tr>
</tbody>
</table>
Foothill College presents University Transfer Day each fall.
www.foothill.edu
A

A.A. and A.S. Degrees
General Education 59
Requirements 54
Academic
Calendar see Inside Front Cover
Dishonesty 43
Disqualification 38
Divisions Office Phone Numbers 27
Honor Code 43
In-Class Issues 38
Policies 35–52
Prerequisites 36
Regulations 38
Renewal 38
Skills 109
Accessible
Elevators 280
Parking 280
Access Information 280
Accounting 29, 30, 31, 62, 109–252
ADA see Americans With Disabilities Act
Adaptive
Aquatics 30, 62–63
Fitness 29, 30, 63
Learning 16
Community Based 110–113
Computer Access Center 110
Gerontology 113
Learning Disability 113–114
REACH: Post-Stroke 114–116
Transition to Work 116–117
Physical Education 117–118
Add/Drop Date 38
Admission
Deadline see Inside Front Cover
Enrollment Policies 36
Guidelines 36
Advertising 118
Air Conditioning & Refrigeration/Heating 30
Allied Health Sciences 118
All-Weather Track 8

American Studies 30, 63
Americans With Disabilities Act 44
Anthropology 30, 64–65, 118–119
Appreciation Hall 8
Apprenticeship
Electrician 120–121
Programs 30, 119
Arabic 121
Arcade 10
Area & Middlefield Campus Maps 279
Art 30, 121–125
General 65–66
History 30, 66
Studio 66–67
Articulation Agreements 56
ASFC see Associated Students of Foothill College
Asian Pacific Islander Month 11
Assignments & Examinations 38
Associated Students of Foothill College 10, 12
Associate in Arts Degree 6, 7, 28, 29, 30, 31, 32, 33, 34, 37, 40, 54, 59, 105
Associate in Science Degree 30, 31, 32, 33, 34, 59
Astronomy 125
Athletic Injury Care 33
Physical Education 67
Athletics 10, 125 see also Physical Education
Attendance 39
Audit Request Procedures 39
Azumaya Meditation Pavilion 8

Bamboo Garden 8
BIA see Bureau of Indian Affairs
Bioinformatics 29, 30, 67
Biological Sciences 30, 68
Biology 125–128
Biotechnology 29, 30, 68, 128–131
Black History Month 11
Board of Governors Enrollment Fee Waiver 25
Board of Trustees 258

BOGW see Board of Governors Enrollment Fee Waiver
Bookstore 10
Bureau of Indian Affairs 24
Business 131–132
Administration 30, 68–69
Communication 31
International Studies 31, 69–70
Office Administration 29, 31
Office Technology 29, 31, 132
Technology 70
Help Desk/Technical Support 70
Office Administration 70–71

C

Calendar, Academic see Inside Front Cover
CAL Grants 25
California
Articulation Number System 106
Chafee Grant 25
State University General Education Breadth Requirements 61
Campus
Abroad Program 18
Clubs 11
Highlights 8
Improvements 8
Information 277
Map, Key & Legend 280–281
Phone Numbers 3
Radio 11
Security Summary Report 51
Support Centers 15
CAN see California Articulation Number
Cancellation of Classes 39
Career Center 14
Career Life Planning 132–134
Catalog Rights/Requirements for Graduation 54
Celebrity Forum 8
Certificate
Career 28
of Achievement 28
of Completion 28
of Proficiency 28
of Specialization 28
Programs 28
Skill 28
Certification of General Education for Transfer 55
Challenging Prerequisites 36
Cheating 43
Cheerleading 11
Chemistry 8, 31, 71, 134–135
Child Development 29, 31, 71–72, 135–137
Chinese 31, 72–73, 137–138
Heritage Room 8
Mandarin 137–138
Choral Building 8
Cisco
CCNA Academy Certificate 32
CCNP Academy Certificate 32
Class
Preparation/Progress 39
Size & Frequency 39
Classified Staff 267
Code of Conduct for ETUDES Internet-Based Courses 51
College
Costs 21
District Policies 43
Hour 11
Profile 5–8
Commercial Use 50
Communication Studies 31, 73–74, 138–139
Community Service 11, 88
Complaints & Grievance Process 46
Computer
Centers 15
Information Systems 140–145
Networking & Electronics 145–149
Science 6, 7, 30, 31, 32, 33, 34, 37, 40, 54, 59, 74, 105
Software Development 29, 31, 74–75
Computers
on the Internet 153–157
& Software Training 150–153
Technology & Information Systems 29
Consequences of Academic Dishonesty 43
Contents 3
Continuing Student 15
Continuous Enrollment 55
Cooperative
Agencies Resources for Education 17
Work Experience 18
Work Experience Education 157–158
Copyright 50
Cornell University 56
Cost of Attendance 23
Counseling 14, 55, 56, 158–159
Appointments 14
Course
Grading Categories 40
Listings 105–108, 109–252
Numbering System 55, 105
Repetition 39
Substitutions 38
Creative Writing 31, 75–76, 159
Credit
Academic 36
by Examination 39
Transfer from Another Institution 40
Crime Awareness 51
CSU
East Bay 56
Monterey Bay 56
CTIS see Computers, Technology & Information Systems
Division Majors 29
Cultural Enrichment 11
Currency of Major/Certificate Requirements 55
Curriculum
Advisory Committees 29
CWE see Cooperative Work Experience Program

D
Dance 160
Squad 11
Database Management 29, 31, 76
Database/SQL 31
Deaf Access 280
De Anza College 7, 8, 18, 20, 37, 46, 55, 258
Dental
Assisting 29, 32, 76, 160–161
Health Clinic 8
Hygiene 29, 32, 77, 162–164
Desktop Publishing 31
Diagnostic Medical Sonography 29, 32, 77–78, 164–166
Digital Imaging 92–93
Dining Room 10
Directions to Foothill College
  Main Campus 279
  Middlefield Campus 279
Disabled Student Programs & Services 16
Disadvantaged Students 17
Discontinued Degrees 55
Disqualification 38
District Police 10, 278
Diversity 7
Drama 166 See Theatre Arts
Drop/Add Date 38
Drug-Free Campus Policy 46

E
E-Commerce & Electronic Business 31
Economics 32, 78, 166
Education 166–167
Electrician 81, 120–121
  Residential Electrician 30
  Sound & Communication 30
Electronic Business 33
Elevator Construction 30
Emergency
  Loans 26
  Medical Technician 167
  Paramedic 167–170
Emeritus Faculty 264
Employment 26
Engineering 32, 56, 78, 170
English 32, 78–79, 170–174
as a Second Language 175–177
Enterprise Networking 29, 32, 79–80
Environmental Horticulture & Design 29, 32, 80–81, 177–181
EOPS see Extended Opportunity Program & Services
Estimated Annual Cost of Attending Foothill College 23
Evening College 18
Exception Policies
Admissions & Registration 37
Extended Opportunity Program & Services 24

F

F-1 Visas see Inside Front Cover, 18–19
Facility Rental 8
Faculty & Staff 257–270
Family Education Rights & Privacy Act 42
Fashion Merchandising 181
Federal
Aid 24
Pell Grant 24
Perkins Loan 24
Supplemental Educational Opportunity Grant 24
Work Study 24
FERPA see Family Education Rights & Privacy Act
FGA see Foothill Global Access
Film/Television see Video Arts
Final Examinations 40
Financial Aid
Answers 26
Eligibility 23
Planning 21
Fine Arts 181
Football Stadium 8
Foothill College Administration 259
Foothill-De Anza Community College District 1, 6, 258
Foothill Global Access 18
Former Student 15
Four-Year Institution Requirements 56
French 32, 81, 181–182
Freshman 15
FSEOG see Federal Supplemental Educational Opportunity Grant
Full-Time Student 15

G

Gay & Lesbian Heritage Month 11
General
Education
Coursework 28
Reciprocity 54
Requirements 59
Electrician 81–82
Program Requirements 37
Registration Information 37
Studies 32
Humanities 32, 82
Science 82
Social Science 32, 82
Geographic Information Systems 29, 32
Geography 32, 82–83, 182–184
Geology 32, 83, 184–185
German 32, 84, 185–186
Gerontology 83–84, 113
GIS see Geographic Information Systems
Golden Gate University 56
Golf Instruction Complex 8
Grade Changes 41
Grade Point Average 38
Grade Requirements for Specified Career Program Courses 29
Grading Scale 41
Graduation
Requirements 38
Graphics & Interactive Design 29, 32, 84–85, 186–188
Grievance Process 46

H

Harassment 50
Health 188
Health Services 10, 16
Heating/Refrigeration & Air Conditioning 30
Hebrew 188
Help Desk 29, 33, 70
High School Credits at Foothill 41
History 7, 30, 33, 85, 188–189
Honors Institute 42
Horticulture Complex 8
Housing 16
Humanities 32, 82, 189–190
Human Performance see Physical Education

I

IGETC see Intersegmental General Education Transfer Curriculum
Incomplete Grade 41
Individual Studies 33, 54, 85
Informatics 29, 33, 85
Instructional Materials Fee 22
Instructional Support Center 8
Interactive & Multimedia Technologies 29, 33, 85–86
Intercollegiate Teams 10
International
Programs 18–19
Student 15
Internet
Electronic Commerce 31
Technology 29, 33, 86–87
Internship Program 19
Intersegmental General Education Transfer Curriculum 60
Intramural
Recreation Program 10
Sports 11
Introduction to College Course 14
Ironworking 30
Italian 190

Foothill College 2008–2009  www.foothill.edu
Japanese 33, 87, 190–191
Japanese Cultural Center 8
Jewish Heritage Month 11

K
KFJC-FM 89.7 11
Korean 33, 88, 191–192
Krause Center for Innovation 8

L
Language Arts 8, 15, 192
Laboratory 15
Latino Heritage Month 11
Law & Society 33
Pre-Law 88
Leadership 12
Community Service 33, 88
Learning Disability 113–114
Learning in New Media
Classrooms 192–202
Library 8
Science 202
Services 15
Limited English Skills Policy 44
Linguistics 33, 88, 202–203
Lower Campus Complex 8
Lower-Division Transfer 57

M
Main Campus 1, 279
Major & Certificate
Requirements 62–104
Major Requirements 57
Materials Fee 23
Math Center 8
Mathematics 33, 88–89, 203–205
Math, Physics & Chemistry Center 16
Matriculation 14, 36
MCDST Preparation 32
MCITP Database Developer 31
MCSA Preparation Certificate 32
MCSE Preparation Certificate 32
Media
Center 16
Studies 103

Menlo College 56
Meteorology 205
Microsoft Certified Application
Developer 31
Middle College 10, 19
Middlefield Campus 1, 8, 20
Map 279
Military Service 17
Mills College 56
Minimum Admission Requirements 58
Mission Statement 6
Misuse of Computer Information
& Resources Policy 50
Multimedia Arts IDEA Computer Lab 8
Music 29, 205–210
General 31, 32, 54, 55, 59, 89
Performance 210–213
Technology 8, 29, 31, 33, 34, 89–90
Mutual Respect Policy 45

N
Nanoscience 90–91
Nanotechnology 213–214
National Hispanic University 56
Network Security 32
New Student 15
New Transfer Student 15
Non-Discrimination Policy 44
Non-Resident
Student 15
Tuition Fee 23
No Smoking Policy 46
Notre Dame de Namur University 56

Object-Oriented Software
Using C++ 31
Using Java 31
Occupational
Training Institute 20
Oceanography 214
Off-Campus
Programs 20
Trips & Activities 42

Office
Administration 70–71
Manager
General Office 31
Office Computing 31
Technology 132
Online Degrees 55
On the Cover 1
Open Course Policy 36
Open-Entry/Open-Exit Classes 42
Open-Source Database 31
Oracle
Database Administration 31
Database Developer 32
Other Approved Courses 253
Oversubscribed Programs 57
OwlCard 10

Paint Room Graphics 10
Paramedic 29, 33, 91, 167–170
Parking 280
Citations 46
Regulations 278
Performing Arts 214–215
Personal
Support Services 16
Trainee 33, 91–92, 215
Petition for Graduation 54
Pharmacy Technician 29, 33, 92
Pharmacy Technology 215–216
Philosophy 33, 92, 216–217
Photography 217–220
Photography & Digital
Imaging 29, 33, 92–93
Physical Education 7, 10, 17, 27,
29, 33, 34, 54, 55, 56, 59, 60,
61, 67, 94, 117, 220–225
Physical Sciences & Engineering 225
Physics 8, 33, 94, 226
Placement Testing 15, 36, 37
Plagiarism 43
Plumbing/Pipefitting 30
PLUS Loan 24
Police Conduct 46
Policies 35–52
Political Science 33, 94, 227
Pre-Dentistry 30
Pre-Law 33, 88
Pre-Medicine 30
Pre-Pharmacy 30
Pre-Veterinary 30
Primary Care Associate 29, 33, 94–95, 228
Priority Application Filing Period 58
Probation 38
Professional Programs Leading to a Career Upon Completion 29
Professional & Work Force Development 17, 18
Programs of Study 27
Project Veterans Program 20
PSME See Physical Sciences, Mathematics & Engineering
Psychological Services 7, 10, 16
Psychology 34, 95, 229
Public Events & Services 8

Radiation Therapy Technology 29, 34, 95–96, 229–231
Radio 29, 231–232
Radio Broadcasting 29, 34, 96
Radiologic Technology 29, 34, 96–97, 232–234
REACH: Post-Stroke 114–116
Real Estate 29, 34, 97, 234
Recreation Area 10
Refrigeration/Heating & Air Conditioning 30
Refunds 23
Repayment 23
Requirements (Academic) 53–60
Residency Requirements 37
Respiratory Therapy 29, 34, 97–98, 234–236
Revision of College Policies 36
ROTC 236
Rules & Policies May Change 1

San Francisco State University (CSU) 56
San Jose State University (CSU) 56
Santa Clara University 56
Scholarships 26
Scholastic Honors 42

Science 32, 82, 236
Select a Major 28
Service Learning Volunteer Center 10
Sexual Harassment Protection Policy 45
Sheet Metal 30
Short Courses 20
Shuttle Service 280
Small Business Administration 29, 31
Smart Shop 10
Social Science 32, 82, 237–238
Sociology 34, 98, 237–238
Software Development 74–75
Software Training 150–153
Sophomore 15
Sound & Communication 30
Spanish 34, 98–99, 238–239
Special Assistance Services 16
Special Education 29, 34, 99, 239–240
Special Studies & Programs 17
Specific Examples of Academic Dishonesty 43
Speech See Communication Studies
Spreadsheets 31
SQL see Database
Stafford Student Loan 24
Student
Access to Education Records 42
Accounts 10
Activities Program 10, 12
Affairs & Activities 10
Called to Active Military Service 17
Classifications 15, 37
Development Services 14
Fees 22
Government 12
Right-to-Know Summary Report 52
Services & Programs 13
Student Code of Conduct 46
Swimming Pool 8

Textbooks & Supplies 22
Theatre 8
Theatre Arts 34, 99–100, 241–245
Theatre Technology 29, 34, 100–101
The Sentinel Newspaper 10
Title IX Procedural Requirements 45
Traffic Violations 46
Transcripts 41
Transfer
Admission Agreements 56
California State University (to the) 57
Four-Year Colleges & Universities (to) 56
Lower-Division 57
Preparation 33, 54, 85
University of California (to the) 57
Upper-Division 57
Transition to Work 116–117
Travel Careers 34, 101–102, 245–247
Tutorial Center 8, 16
Two-Year Career Programs 29

Ultrasound see Diagnostic Medical Sonography
Unit Limitation 38
University
of California
Breadth General Education Requirements 56
Davis 56
Irvine 56
Los Angeles 56
Merced 56
Riverside 56
San Diego 56
Santa Barbara 56
Santa Cruz 56
of San Francisco 56
of the Pacific 56
UNIX System Operations & Administration 31
Upper-Division Transfer 57
Use of Photography 52
Veterans Assistance & Services 17, 20
Veterinary Technology 8, 29, 34, 102–103, 247–250
Video Arts 250–251
  Media Studies 103
  Production 103–104
Video & Computer Game Design 34
Vision Statement 6
Viticulture 251–252
Volunteer Center 11

Web Administration 33
Web-Based Multimedia 33
Web Programming 33
Web Publishing 33
Wellness Center 8
Wireless Networking 32
Withdraw from College 41
Women's History Month 11
Women's Studies 34, 104, 252
Word Processing/Desktop Publishing 31
Writing Centers 16
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

Parking

Accessible Elevators

Accessible Parking

Shuttle Service

TDD-Deaf Access
Campus Information

Parking Regulations

The Foothill-De Anza District Police Department supervises on-campus parking and traffic. The following rules and regulations apply to all students, staff and public. You can find a complete list of college parking and traffic regulations in the Admissions & Records Office and District Police Department, 2103.

- The speed limit in campus parking areas and access ways is 5 miles per hour. The speed limit of 20 miles per hour is posted on all roadways and is strictly enforced.
- Except in areas with 30-minute parking meters, all vehicles must display a valid parking permit to park on campus. Failure to display a permit will result in a citation.
- Parking permits are required seven days a week from 7 a.m. to 10 p.m. This requirement is enforced.
- Parking permits are not required at Middlefield Campus.
- Day-use parking permits are $2 and are valid for the date of purchase only. Purchase from red and yellow permit dispensers in all student parking lots. Purchase quarterly or annual permits from the Admissions & Records Office.
- All vehicles must properly display a valid parking permit. Students are authorized to park in marked stalls in student lots only. Students may not park in stalls marked for disabled, staff, vendors, official vehicles or park in roadways, dirt areas or along parking lot curbing. People with disabilities are required to display state-issued identification on their vehicles or, in the event of temporary disabilities, obtain permits from the Disability Resource Center, Room 5801; or call (650) 949-7017.
- Staff parking permits are required for all staff spaces. Staff permits are issued by the District Police Department.
- Special permits will be issued only by the District Police Department. The permit must be displayed on the dashboard or hang on the interior mirror so it can be read from the outside. Special permits are valid only when used within the areas and dates designated on the permit.
- Motor vehicles, bicycles and skateboards are not permitted on the interior portion of campus.
- Don’t invite theft by leaving articles of value in your automobile. Anything left in a car should be locked in the trunk. Lock your vehicle.

- All vehicles remaining for more than 20 minutes in areas posted for 20-minute maximum will be cited.
- Parking or loitering on campus after 11 p.m. and/or after special activities is prohibited.
- Alcoholic beverages are prohibited on campus.

For more information, call the District Police Department at (650) 949-7313.
Directions to Foothill College Main Campus

Foothill College is located in Los Altos Hills, 10 minutes south of Stanford University and 20 minutes north of San Jose. From Interstate 280, exit El Monte Road and travel west. Visitors must purchase a required campus parking permit for $2. Quarterly and annual permits can be purchased in the Admissions Office. Public bus routes #23 and #52 serve the college approximately every 30 minutes.

Directions to Foothill College Middlefield Campus

The Foothill College Middlefield Campus, 4000 Middlefield Road, is located on Middlefield Road between Charleston and San Antonio roads in Palo Alto.

To travel from the Main Campus to the Middlefield Campus: Drive east on El Monte Road. Turn left on Foothill Expressway. Turn right on San Antonio Road. Turn left on Middlefield Road. Parking at Middlefield Campus is free. The trip is five miles.
### Foothill College Campus Map, Key & Legend

<table>
<thead>
<tr>
<th>PROGRAM/DIVISION</th>
<th>LOCATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Senate .</td>
<td>1926</td>
</tr>
<tr>
<td>Adaptive Learning Division .</td>
<td>5801</td>
</tr>
<tr>
<td>Adaptive Learning Testing Room .</td>
<td>5801</td>
</tr>
<tr>
<td>Adaptive Physical Education .</td>
<td>2509</td>
</tr>
<tr>
<td>Admissions</td>
<td>8101</td>
</tr>
<tr>
<td>Appreciation Hall .</td>
<td>1501</td>
</tr>
<tr>
<td>Apprenticeship Program .</td>
<td>4057</td>
</tr>
<tr>
<td>Archives .</td>
<td>D100</td>
</tr>
<tr>
<td>Articulation .</td>
<td>5401</td>
</tr>
<tr>
<td>ASFC .</td>
<td>2009</td>
</tr>
<tr>
<td>ASFC Design Center .</td>
<td>2017</td>
</tr>
<tr>
<td>ASFC Smart Shop/OwlCard .</td>
<td>2016</td>
</tr>
<tr>
<td>Athletic Training Center (ATC) .</td>
<td>2821</td>
</tr>
<tr>
<td>Audio Visual/Technology Center .</td>
<td>3509</td>
</tr>
<tr>
<td>Band Room .</td>
<td>1101</td>
</tr>
<tr>
<td>Biological &amp; Health Sciences Division .</td>
<td>5211</td>
</tr>
<tr>
<td>Bookstore .</td>
<td>2301</td>
</tr>
<tr>
<td>Business &amp; Social Science Division .</td>
<td>3007</td>
</tr>
<tr>
<td>Campus Abroad .</td>
<td>4016</td>
</tr>
<tr>
<td>Career Center .</td>
<td>8329</td>
</tr>
<tr>
<td>Chancellor’s Office .</td>
<td>D120</td>
</tr>
<tr>
<td>Chinese Heritage Room .</td>
<td>3523</td>
</tr>
<tr>
<td>Classified Senate .</td>
<td>5027</td>
</tr>
<tr>
<td>Computer Access Center .</td>
<td>5701</td>
</tr>
<tr>
<td>Computers, Technology &amp; Information Systems Division .</td>
<td>4118</td>
</tr>
<tr>
<td>Cooperative Work Experience Program .</td>
<td>1954</td>
</tr>
<tr>
<td>Counseling Division .</td>
<td>8301</td>
</tr>
<tr>
<td>Dental Health Center .</td>
<td>5314</td>
</tr>
<tr>
<td>Dining Room .</td>
<td>2201</td>
</tr>
<tr>
<td>Disability Resource Center .</td>
<td>5801</td>
</tr>
<tr>
<td>Distance Learning .</td>
<td>3600</td>
</tr>
<tr>
<td>District ETS Offices .</td>
<td>D210–D260</td>
</tr>
<tr>
<td>District Police .</td>
<td>2103</td>
</tr>
<tr>
<td>Economic Development .</td>
<td>4057</td>
</tr>
<tr>
<td>Educational Resources &amp; Instruction .</td>
<td>1920</td>
</tr>
<tr>
<td>EOPS Tutoring .</td>
<td>3526</td>
</tr>
<tr>
<td>English Writing Center .</td>
<td>3612</td>
</tr>
<tr>
<td>Environmental Horticulture &amp; Design .</td>
<td>8602</td>
</tr>
<tr>
<td>ESL Writing Center .</td>
<td>6301</td>
</tr>
<tr>
<td>Evening College .</td>
<td>1901</td>
</tr>
<tr>
<td>Extended Opportunity Program &amp; Services (EOPS) .</td>
<td>8202</td>
</tr>
<tr>
<td>Facilities Contracts .</td>
<td>2713</td>
</tr>
<tr>
<td>Faculty Association .</td>
<td>D140</td>
</tr>
<tr>
<td>Financial Aid .</td>
<td>8212</td>
</tr>
<tr>
<td>Fine Arts &amp; Communication Division .</td>
<td>1701</td>
</tr>
<tr>
<td>Food Services .</td>
<td>2211</td>
</tr>
<tr>
<td>Foothill-De Anza Foundation .</td>
<td>D100</td>
</tr>
<tr>
<td>Forum .</td>
<td>5001</td>
</tr>
<tr>
<td>Health Services .</td>
<td>2126</td>
</tr>
<tr>
<td>Honors Institute .</td>
<td>5425</td>
</tr>
<tr>
<td>IDEA Lab .</td>
<td>1222</td>
</tr>
<tr>
<td>Instructional Support Center .</td>
<td>3612</td>
</tr>
<tr>
<td>Institutional Research &amp; Instruction .</td>
<td>1916</td>
</tr>
<tr>
<td>International Programs .</td>
<td>5403</td>
</tr>
<tr>
<td>International Student Admissions .</td>
<td>5904</td>
</tr>
<tr>
<td>Intramural Programs .</td>
<td>2149</td>
</tr>
<tr>
<td>Japanese Cultural Center .</td>
<td>6601</td>
</tr>
<tr>
<td>KFJC-FM Radio Station .</td>
<td>5700</td>
</tr>
<tr>
<td>Krause Center for Innovation .</td>
<td>4001</td>
</tr>
<tr>
<td>Language Arts Division .</td>
<td>6408</td>
</tr>
<tr>
<td>Language Arts Lab.</td>
<td>6308</td>
</tr>
<tr>
<td>Library .</td>
<td>3501</td>
</tr>
<tr>
<td>Lohman Theatre .</td>
<td>8002</td>
</tr>
<tr>
<td>Marketing &amp; Communications Office .</td>
<td>5931</td>
</tr>
<tr>
<td>Math/PSME Center .</td>
<td>4215</td>
</tr>
<tr>
<td>Matriculation .</td>
<td>3302</td>
</tr>
<tr>
<td>Middle College .</td>
<td>2152</td>
</tr>
<tr>
<td>Multicultural Development .</td>
<td>8301</td>
</tr>
<tr>
<td>Occupational Training Institute (OTI) .</td>
<td>6408</td>
</tr>
<tr>
<td>Observatory .</td>
<td>4001</td>
</tr>
<tr>
<td>Older Adult Program &amp; VAMC .</td>
<td>5801</td>
</tr>
<tr>
<td>Outreach &amp; Retention Office .</td>
<td>8102</td>
</tr>
<tr>
<td>Pass the Torch .</td>
<td>5999</td>
</tr>
<tr>
<td>Physical Education &amp; Athletics Division .</td>
<td>2710</td>
</tr>
<tr>
<td>Physical Sciences, Mathematics &amp; Engineering Division .</td>
<td>4118</td>
</tr>
<tr>
<td>Placement Tests .</td>
<td>8213</td>
</tr>
<tr>
<td>Playhouse Theater .</td>
<td>1301</td>
</tr>
<tr>
<td>Police .</td>
<td>2103</td>
</tr>
<tr>
<td>President’s Office .</td>
<td>1904</td>
</tr>
<tr>
<td>Psychological Counseling &amp; Services .</td>
<td>2120</td>
</tr>
<tr>
<td>Quick Copy .</td>
<td>4052</td>
</tr>
<tr>
<td>Robert C. Smithwick Theatre .</td>
<td>1001</td>
</tr>
<tr>
<td>Sentinel/Newsaper .</td>
<td>1072</td>
</tr>
<tr>
<td>Service Learning &amp; Volunteer Center .</td>
<td>2014</td>
</tr>
<tr>
<td>Social Sciences .</td>
<td>3007</td>
</tr>
<tr>
<td>Student Accounts .</td>
<td>2005</td>
</tr>
<tr>
<td>Student Activities .</td>
<td>2009</td>
</tr>
<tr>
<td>Student Affairs .</td>
<td>2002</td>
</tr>
<tr>
<td>Student Development &amp; Instruction .</td>
<td>1916</td>
</tr>
<tr>
<td>Student Success Center .</td>
<td>8102</td>
</tr>
<tr>
<td>Technology &amp; Instruction .</td>
<td>3513</td>
</tr>
<tr>
<td>Temporary Village .</td>
<td>5901–5999</td>
</tr>
<tr>
<td>Theatre Box Office .</td>
<td>8007</td>
</tr>
<tr>
<td>Transfer Center .</td>
<td>8329</td>
</tr>
<tr>
<td>Transition to Work .</td>
<td>5801</td>
</tr>
<tr>
<td>Tutorial Center &amp; Programs .</td>
<td>3526</td>
</tr>
<tr>
<td>Veterinary Technology .</td>
<td>8507</td>
</tr>
<tr>
<td>Wellness Center .</td>
<td>2506</td>
</tr>
</tbody>
</table>

To accommodate construction projects, expect some offices and services to 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 at dispensers located in all student parking lots. Quarterly and annual permits can be purchased at the Admissions Office (Room 8101).

---

### Accessible Elevators

Located at Krause Center for Innovation, Library, Pool Deck, Campus Center and Lower Campus Complex.

---

### Accessible Parking

Located in Lots 1, 2-A, 3-A, 4, 4-A, 4-B, 5-A, 8, stadium, 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 8801); access www.foothill.edu; or call (650) 949-7017, voice; (650) 948-6025, TDD.