APPLY & REGISTER ONLINE
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Priority Registration for DSPS, EOPS, VETS, FOSTER YOUTH
Starts Nov. 20, 2013

Early Registration
Starts Nov. 21, 2013

Continuing Students Registration
Starts Nov. 25, 2013

New or Returning Students Registration
Starts Nov. 30, 2013
WINTER QUARTER 2014 Courses

ACCOUNTING

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

Seven accounting certificates of completion are offered. For more information, access www.foothill.edu/bss.

ACTG 1A  FINANCIAL ACCOUNTING I  5 Units
Advisory: Eligibility for MATH 220 and ESLL 26. 5 hours lecture. (60 total hours per quarter.) Not Repeatable.

Continuing study of accounting information systems for decision making. Original entry and posting, adjusting and closing entries, development of accounting system for computers, internal controls over assets, accounting for monetary assets and inventories, and the relationship among financial statements.

ACTG 1B  FINANCIAL ACCOUNTING II  5 Units
Prerequisite: ACTG 1A.
Advisory: Eligibility for MATH 220 and ESLL 26. 5 hours lecture. (60 total hours per quarter.) Not Repeatable.

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.

ACTG 51A  INTERMEDIATE ACCOUNTING I  4 Units
Prerequisite: ACTG 1B.

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 1B.

Continuation of accounting information system for decision making. Fixed assets and liquidation of partnerships is covered.

ACTG 52  ADVANCED ACCOUNTING  5 Units
Prerequisite: ACTG 51A
Advisory: Eligibility for MATH 220 and ESLL 26. 5 hours lecture. (60 total hours per quarter.) Not Repeatable.

Presents financial accounting theories and practices related to business combinations and consolidated financial reporting. This includes the development of complex business structures and forms of business combinations; consolidated financial reporting for intercorporate acquisitions and operations; and the accounting for transactions of affiliated companies. Also includes accounting and reporting issues in the multinational business environment. Accounting theory and practice related to the formation, operation and liquidation of partnerships is covered.

Unless otherwise noted, Winter Quarter runs Jan 6–March 28, 2014. All courses are Title 5 Degree applicable credit courses unless otherwise noted. All fee payments are due at time of registration. Instructors are not obligated to hold a seat for the student who is enrolled but does not attend the first class meeting. The course listings in this PDF were accurate as of Nov. 4, 2013. Be aware that course listing and footnote information may have changed. For the most accurate, current course listings, always access the online class schedule.
### Winter Quarter 2014 Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
<th>Activity</th>
<th>Time</th>
<th>Days</th>
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<td>ACTG 59</td>
<td>FRAUD EXAMINATION</td>
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<td>ACTG 64A</td>
<td>COMPUTERIZED ACCOUNTING PRACTICE USING QUICKBOOKS</td>
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www.foothill.edu/fga/ for information on how to begin.

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ADVERTISING

Business & Social Sciences (650) 949-7232 www.foothill.edu/bss/

ADVT 57 PRINCIPLES OF ADVERTISING 4 Units
Advisory: Not open to students with credit in BUSI 57. 4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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. Actual creation of an advertising campaign and pro forma budget.

30294 ADVT-057-01Q LEC 10-11:50 AM TTH GREENE 5911

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. (36 total hours per quarter.)
Not Repeatable.
Orientation to Foothill College health care programs preparing students to differentiate among the health care professions and to enter the profession of their choice. 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.

30001 AHS-200.-01 LEC 03-05:50 PM T AUSTIN 5015
AHS-200.-01: Enroll in one of the following labs. More than one lab can be taken. See course description under appropriate department heading: Dental Hygiene D H 200L; Radiologic Technology R T 200L; Respiratory Therapy RSPT 200L.

30002 AHS-200.-02W LEC TBA TBA AUSTIN ONLINE
AHS-200.-02W Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin.

ADAPTIVE LEARNING: COMPUTER ACCESS CENTER

Counseling & Student Services (650) 949-7017 www.foothill.edu/al/

See also Special Education for classes associated with disability-related careers.

ALCA 201 COMPUTER ACCESS EVALUATION 1 Unit
Formerly: ALCA 101
Advisory: Not open to students with credit in ALCA 101. 3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
This is a survey course designed to provide students with an overview of current assistive technologies including Dragon Naturally Speaking, Kurzweil, Inspiration etc. Course content includes an evaluation of technology needs, tutorials, and hands-on practice for various software and hardware.

30173 ALCA-201-01 LAB TBA TBA DAVIS TBA
ALCA201.01: Students must attend an orientation meeting from noon-1:00pm on the second Wednesday of the quarter in room 5710.

ADAPTIVE LEARNING: COMMUNITY BASED

Counseling & Student Services (650) 949-7017 www.foothill.edu/al/

Non-credit courses for older disabled adults are offered at the following community sites: Avenidas, Bridgepoint at Los Altos, Casa Olga, Channing House, Chateau Cupertino, East Palo Alto Senior Center, Fair Oaks Senior Center, Forum, Ladera Recreation, Lytton Gardens, Mt. View Senior Center, Next Step Program, Onetta Harris, Palo Alto Commons, Palo Alto YMCA, Pilgrim Haven, Plaza Del Rey, Redwood Villa, Retirement Inn of Sunnyvale, Sacred Heart High School, Saratoga Senior Center, Senior Day Health Program, Sequoias, Stevenson House, Sunnyvale Senior Center, Sunnyview Retirement Community, Sunrise Senior Living, Villa Siena, and YuAIl Kal Japanese Community Senior Center. For information call (650) 949-7321.

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# Winter Quarter 2014 Courses

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<td>INTERMEDIATE LIP READING &amp; MANAGING YOUR HEARING LOSS</td>
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ANTH 1 INTRODUCTION TO PHYSICAL ANTHROPOLOGY 4 Units

Survey and investigation of the basic processes of evolution and their application to the development of modern humans. Impact of natural selection and genetics on development of new species. Evolutionary processes behind the physical and behavioral development of primates. History of the human lineage by reconstructing the fossil record, using investigations by paleoanthropologists, geologists, biologists, and archaeologists. Relationship between contemporary biology and behavior, facilitating an understanding of the effect of them upon future humankind. 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.

ANTH 1H HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY 4 Units

Prerequisite: Honors Institute participant.
Advisory: Eligibility for ENGL 1A or ESL 26; not open to students with credit in ANTH 1.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
Survey and investigation of the basic processes of evolution and their application to the development of modern humans. Impact of natural selection and genetics on development of new species. Evolutionary processes behind the physical and behavioral development of primates. History of the human lineage by reconstructing the fossil record, using investigations by paleoanthropologists, geologists, biologists, and archaeologists. Relationship between contemporary biology and behavior, facilitating an understanding of the effect of them upon future humankind. 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.

ANTH 1L PHYSICAL ANTHROPOLOGY LABORATORY 1 Unit
Corequisite: Completion of, or concurrent enrollment in ANTH 1.
1 hour lecture-laboratory, 2 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
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. (48 total hours per quarter.)
Not Repeatable.
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. Discussion of anthropological perspectives to contemporary issues.
Course Number Title Units
ANTH 2B PATTERNS OF CULTURE 4 Units

Not Repeatable.
Comparative study of patterns in culture. Introduction to ethnographic research and applications of different methods and theories for studying and interpreting societies.

30097 ANTH-002B-01 LEC 01-02:50 PM MW MAURER 3101

ANTH 3 PREHISTORY: THE SEARCH FOR LOST CIVILIZATIONS 4 Units

4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
Survey of world prehistory as reconstructed by archaeologists. Human culture history from Stone Age beginnings to establishment and collapse of the world’s first major civilizations. Covers societies from Asia and Africa to Europe and the Americas. Introduction to archaeological methods and interpretation. First use of tools, social complexity, urbanization, domestication of plants and animals, and the rise and fall of civilizations.

30107 ANTH-003-01W LEC TBA TBA NEFF ONLINE
ANTH-003-01W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin.

ANTH 4 FIRST PEOPLES OF NORTH AMERICA 4 Units

4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
Survey of Native American 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.

30098 ANTH-004-01 LEC 06-09:50 PM W HYLKEMA 3106

ANTH 5 MAGIC, SCIENCE & RELIGION 4 Units

4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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.

30099 ANTH-005-01 LEC 08-09:50 AM TTh MAURER 3103
30108 ANTH-005-02W LEC TBA TBA MAURER ONLINE
ANTH-005-02W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin.
31824 ANTH-005-03 LEC 02-03:50 PM MW ULLOA 3403

ANTH 8 INTRODUCTION TO ARCHAEOLOGY 4 Units

4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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.

30201 ANTH-008-01W LEC TBA TBA DAVIDSON ONLINE
ANTH-008-01W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin.

ANTH 12 APPLIED ANTHROPOLOGY 4 Units

4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
Applied anthropology focuses on the use of anthropological theories and perspectives in real-world contexts of practice or problem-solving. Course provides students with tools designed to help understand and solve problems arising as a result of culture change, modernization and globalization. Major areas of study include development anthropology and the use of technology in field settings, anthropology and health care, anthropology and advocacy, such as in social work settings, anthropology and law, organizational and business anthropology, and land and resource management.

31575 ANTH-012-01W LEC TBA TBA BAR ONLINE
ANTH-012-01W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin.

ANTH 14 LINGUISTIC ANTHROPOLOGY 4 Units

4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
This course introduces students to the anthropological study of language and non-verbal human communication. Using a cross-cultural perspective, students will examine the relationship between culture and the ways in which humans communicate. Topics include language structure, acquisition, diversity, and change.

31572 ANTH-014-01 LEC 12-01:50 PM TTh KING 5607

ANTH 1HL HONORS PHYSICAL ANTHROPOLOGY LABORATORY 1 Unit

Prerequisite: Honors Institute participant.
Advisory: Eligibility for ENGL 1A or ESLL 26; not open to students with credit in ANTH 1L.
Corequisite: Completion of, or concurrent enrollment in ANTH 1L.
1 hour lecture-laboratory, 2 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
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, hominin 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. 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. Material covered will be enhanced and research techniques and methodologies explored in greater depth than in the non-honors version of this course.

31689 ANTH-01H-01L L-L 12-12:50 PM M WOLF 3103
LAB 01-02:50 PM M WOLF 3103

ANTH 22 THE AZTEC, MAYA & THEIR PREDECESSORS 4 Units

4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
Survey of the origin, spread, and decline of pre-Columbian civilizations in Central America with a focus on the Maya and Aztec. Applies understandings of archaeology and cultural anthropology to examine the dynamics economic, social, political, cultural, and religious systems of Mesoamerica over time. Covers the colonization process by the Spanish and current day indigenous issues in Mesoamerica.

31573 ANTH-022-01 LEC 02-03:50 PM TTh CONNELL 3101

ANTH 50 MEDICAL ANTHROPOLOGY: METHODS & PRACTICE 4 Units

4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
This course is an introduction to Medical Anthropology, a subfield of the discipline of anthropology that seeks to understand and highlight how health, illness and healing practices are culturally constructed and mediated. Students will investigate global, cross-cultural and local issues related to health, sickness, healing, epidemiology, aging

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<th>CRN</th>
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<tr>
<td>30988 ART -002C-01W</td>
<td>Hybrid class. After registering, you must refer to course descriptions at <a href="http://www.foothill.edu/fa/">www.foothill.edu/fa/</a> for information on how to begin. Meets UC/CSU area Arts &amp; Humanities transfer requirements (IGETC) and CSU area C-1 General Education (breadth requirements) and Foothill College General Education Graduation Requirements in Humanities for the AA/AS Degree.</td>
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<td>This course of study provides an opportunity for the student to expand their studies in Anthropology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contact with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.</td>
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<td>30468 ART -002B-02L</td>
<td>Laboratory methods and techniques of archaeology, including cataloging, care and analysis of artifacts, bone recognition, and archaeological excavation.</td>
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Courses listed on transcript with an “S” suffix are the first half of the course, “T” indicates the second half.

**ART**

**ART 1 INTRODUCTION TO ART** 4.5 Units 4 hours lecture, 1.5 hours laboratory. (66 total hours per quarter.) Not Repeatable.

**ART 2B HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE** 4.5 Units 4 hours lecture, 1.5 hours laboratory. (66 total hours per quarter.) Not Repeatable.

**ART 2C HISTORY OF WESTERN ART FROM THE BAROQUE TO POST-IMPRESSIONISM** 4.5 Units 4 hours lecture, 1.5 hours laboratory. (66 total hours per quarter.) Not Repeatable.

**ART 2E A HISTORY OF WOMEN IN ART** 4.5 Units 4 hours lecture, 1.5 hours laboratory. (66 total hours per quarter.) Not Repeatable.

A chronological, thematic, and cross-cultural examination of art works and gender issues concerning women artists from the early Middle Ages to the 21st century. Includes the influences on art produced by women of such issues as race, gender, socio-economic and political conditions, increasing urbanization, and conceptions of nature, etc.

 Unless otherwise noted, Winter Quarter runs Jan. 6–March 28, 2014. All courses are Title 5 Degree applicable credit courses unless otherwise noted. All fee payments are due at time of registration. Instructors are not obligated to hold a seat for the student who is enrolled but does not attend the first class meeting. The course listings in this PDF were accurate as of Nov. 4, 2013. Be aware that course listing and footnote information may have changed. For the most accurate, current course listings, always access the online class schedule.
### Winter Quarter 2014 Courses

**ART 12**
**INTRODUCTION TO ASIAN ART** 4.5 Units
Formerly: ART 12
Advisory: Not open to students with credit in ART 12.
4 hours lecture, 1.5 hours laboratory. (66 total hours per quarter.)
Not Repeatable.
An introduction to the art of India, China and Japan from the Neolithic Age to the present, covering painting, sculpture, architecture and ceramics. This course emphasizes the cultural, social and historical meaning of art and traces the changes in style, meaning, and use of art within the broader context of the great religious traditions of China, Japan, and India.

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<th>Days</th>
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<tr>
<td>30628</td>
<td>ART -004B-01G</td>
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<td>TTh</td>
<td>GOMES</td>
<td>1601</td>
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**ART 2J**
**AMERICAN ART** 4.5 Units
Formerly: ART 14
Advisory: Not open to students with credit in ART 14.
4 hours lecture, 1.5 hours laboratory. (66 total hours per quarter.)
Not Repeatable.
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, ethnicity, socio-economic and political reforms, and civil and international wars.

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**ART 2F**
**INTRODUCTION TO ASIAN ART** 4.5 Units
Formerly: ART 12
Advisory: Not open to students with credit in ART 12.
4 hours lecture, 1.5 hours laboratory. (66 total hours per quarter.)
Not Repeatable.
An introduction to the art of India, China and Japan from the Neolithic Age to the present, covering painting, sculpture, architecture and ceramics. This course emphasizes the cultural, social and historical meaning of art and traces the changes in style, meaning, and use of art within the broader context of the great religious traditions of China, Japan, and India.

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**ART 4A**
**FUNDAMENTALS IN DRAWING** 4 Units
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
In this beginning level drawing course students will analyze form and incorporate value, the concepts of light and shadow patterns, perspective, proportion and composition in the practice of drawing. In-depth theory and practice of charcoal drawing. Great works of historical drawings will be studied in relation to value, line, form, space and composition.

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<th>CRN</th>
<th>Course ID</th>
<th>Title</th>
<th>Activity Time</th>
<th>Days</th>
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**ART 4B**
**INTERMEDIATE DRAWING** 4 Units
Prerequisite: ART 4A.
Advisory: ART 5A; this course is included in the Drawing family of activity courses.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
Exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts using a variety of drawing mediums, techniques, and methodologies. Students in this course will build on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing.

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<th>Activity Time</th>
<th>Days</th>
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**ART 4C**
**REPRESENTATIONAL DRAWING** 4 Units
Prerequisite: ART 4A.
Advisory: This course is included in the Drawing family of activity courses.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
An intermediate level representational drawing course concentrating on observation and depiction of volume and linear perspective in a variety of drawing media.

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**ART 4D**
**HEADS & HANDS DRAWING** 4 Units
Advisory: This course is included in the Drawing family of activity courses.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
A beginning drawing course focusing on the representation and interpretation of the head and hands, with attention to drawing from life.

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**ART 5A**
**2-D FOUNDATIONS** 4 Units
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
Introduction to the concepts, applications, and historical and contemporary references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments.

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<th>Course ID</th>
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**ART 5B**
**3-D FOUNDATIONS** 4 Units
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
Introduction to the concepts, applications, and historical references related to three-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to three-dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for non-representational three-dimensional studio projects.

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**ART 19A**
**OIL PAINTING I** 4 Units
Prerequisite: ART 4A.
Advisory: This course is included in the Painting family of activity courses.

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### Winter Quarter 2014 Courses

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**ART 19A ACRYLIC PAINTING I**
4 Units

Prerequisite: ART 4A.
Advisory: This course is included in the Painting family of activity courses.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
Introduction to the theory and practice of basic acrylic painting, including the use of value, color and light to model the three-dimensional form.

**ART 19B ACRYLIC PAINTING II**
4 Units

Formerly: ART 47
Prerequisites: ART 4A and 19A.
Advisory: This course is included in the Painting Family of activity courses; not open to students with credit in ART 47.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
The theory and practice of painting and continuation of Oil Painting I. Building on fundamental, oil painting skills to develop personalized style, complex subject matter, color theory and composition.

**ART 19C OIL PAINTING I**
4 Units

Formerly: ART 47
Prerequisites: ART 4A and 19A.
Advisory: This course is included in the Painting Family of activity courses; not open to students with credit in ART 47.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
The introduction to the painting of acrylics in the context of historical and contemporary significant work. This course is open to students with no prior experience in painting.

**ART 20A COLOR I**
3 Units

A fundamental course in color and its creative application.

**ART 20B COLOR II**
3 Units

Prerequisite: ART 20A.
6 hours lecture-laboratory. (72 total hours per quarter.)
Not Repeatable.
Continued practice in creative application of color theory with emphasis on the study of perception, simultaneous contrast and Munsell theory.

**ART 39 SCREENPRINTING**
4 Units

Advisory: This course is included in the Printmaking family of activity courses; not open to students with credit in GID 46.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.

**ART 45A BEGINNING CERAMICS HANDBUILDING**
4 Units

Advisory: This course is included in the Ceramic Construction family of activity courses.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
An introduction to basic ceramic hand-building techniques, and its historical and contemporary significance. This class will introduce ceramic hand-building techniques including pinching, coil, and slab construction, as well as examine various high and low-fire glazing techniques. In addition to sculpting and constructing hand built vessels students will examine, critically discuss, analyze and write about clay, glaze and hand-building techniques, tools, ceramic terminology and processes of historical and contemporary clay hand-built vessels. Students will learn ceramic vocabulary, and participate in verbal and written class critiques.

**ART 45B BEGINNING CERAMICS POTTER’S WHEEL**
4 Units

Advisory: This course is included in the Ceramic Construction family of activity courses.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
An introduction to throwing on the potter’s wheel, and its historical and contemporary significance. This class will introduce the process of wedging clay, centering a pot, pulling a wall, shaping processes, and trimming techniques to complete well balanced forms on the potter’s wheel. In addition to gaining expertise in wheel-throwing, students will examine, discuss, critique and write about the techniques, tools, ceramic terminology and processes of historical and contemporary thrown clay vessels. Students will use ceramic vocabulary in verbal and written class critiques.

**ART 45C ADVANCED CERAMICS**
3 Units

Prerequisites: ART 45A and 45B.
Advisory: Concurrent enrollment in ART 45CL; this course is included in the Ceramic Construction family of activity courses.
6 hours lecture-laboratory. (72 total hours per quarter.)
Not Repeatable.
Laboratory practice in throwing advanced forms on the potter’s wheel, combining hand-built and wheel-thrown forms, glazing these forms, and understanding kiln loading and firing procedures.

**ART 96 BOOK ARTS I**
4 Units

Advisory: This course is included in the Book Arts & Paper family of activity courses; not open to students with credit in GID 90 or GRDS 96.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
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.

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www.foothill.edu

Foothill College • Winter Quarter 2014
WINTER QUARTER 2014 COURSES

ASTRONOMY

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

ASTR 10A GENERAL ASTRONOMY: SOLAR SYSTEM 5 Units
Advisory: Concurrent enrollment in ASTR 10L.
5 hours lecture, (60 total hours per quarter.)
Not Repeatable.
Non-technical introduction to astronomy, with emphasis on the planets, dwarf 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, dwarf planets, 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.

30458 ASTR-010A-01 LEC 12:01-12:25 PM MTh FRAKNOI 5015
ASTR-010A-01: Additional costs for online materials or content in place of or in addition to a textbook may be required.
30459 ASTR-010A-02 LEC 06:08-06:15 PM TTh FRAKNOI 5015

ASTR 10B GENERAL ASTRONOMY: STAR, GALAXIES, COSMOLOGY 5 Units
Advisory: Concurrent enrollment in ASTR 10L; not open to students with credit in ASTR 10BH.
5 hours lecture, (60 total hours per quarter.)
Not Repeatable.
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.

30460 ASTR-010B-01 LEC 06:08-06:15 PM MW BECK MC IA
ASTR-010B-01: Additional costs for online materials or content in place of or in addition to a textbook may be required.

ASTR 10L ASTRONOMY LABORATORY 1 Unit
Corequisite: ASTR 10A, 10B or 10BH.
1 hour lecture-laboratory, 2 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
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, tracking 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.

30461 ASTR-010L-01 L-L 01:40-02:30 PM T FRAKNOI 4714
LAB 02:30-02:40 PM T FRAKNOI 4714
ASTR-010L-01: Additional costs for online materials or content in place of or in addition to a textbook may be required.
30462 ASTR-010L-02 L-L 01:40-02:30 PM Th FRAKNOI 4714
LAB 02:30-02:40 PM Th FRAKNOI 4714
ASTR-010L-02: Additional costs for online materials or content in place of or in addition to a textbook may be required.
30463 ASTR-010L-03 L-L 08:30 PM-09:00 PM TTh FRAKNOI 4714
LAB 09:00-09:50 PM TTh FRAKNOI 4714
ASTR-010L-03: Additional costs for online materials or content in place of or in addition to a textbook may be required.

ATHLETICS

Kinesiology & Athletics
650-949-7742

ATHL 4B SPORT TECHNIQUES & CONDITIONING FOR FOOTBALL 2 Units
6 hours laboratory. (72 total hours per quarter.)
May be taken six times for credit.
This course teaches and provides practice specific techniques and conditioning for the sport of football. This includes drills, weight and flexibility training, and cardio-respiratory development.

31412 ATHL-004B-01 LAB 04:10 PM-05 PM MW EDWARDS LWFLD
31414 ATHL-004B-02 LAB 04:10 PM-05 PM MW RAIVIO LWFLD

ATHL 11 INTERCOLLEGIATE BASKETBALL (MEN) 3 Units
Formerly: PHED 35C
Advisory: Only open to members of the Men’s Basketball team.
14.5 hours lecture-laboratory. (174 total hours per quarter.)
May be taken six times for credit.
Competitive intercollegiate basketball working toward personal development, athletic scholarship and career opportunities.

31419 ATHL-011-.01 L-L TBA TBA STANLEY 2601

ATHL 12 INTERCOLLEGIATE BASKETBALL (WOMEN) 3 Units
Formerly: H P 35D, PHED 34C
Advisory: Only open to members of the Women’s Basketball team.
14.5 hours lecture-laboratory. (174 total hours per quarter.)
May be taken six times for credit.
Competitive intercollegiate women’s basketball working toward personal development, athletic scholarship, and career opportunities.

31420 ATHL-012-.01 L-L TBA TBA JENNINGS 2601

ATHL 21B SPORT TECHNIQUES & CONDITIONING FOR MEN’S SOCCER 2 Units
6 hours laboratory. (72 total hours per quarter.)
May be taken six times for credit.
This course teaches and provides practice specific techniques and conditioning for the sport of soccer. This includes drills, weight, and flexibility training, and cardio-respiratory development.

31652 ATHL-021B-01 LAB 01:30-04:20 PM MW LINER UFWLD

ATHL 22B SPORT TECHNIQUES & CONDITIONING FOR WOMEN’S SOCCER 2 Units
6 hours laboratory. (72 total hours per quarter.)
May be taken six times for credit.
This course teaches and provides practice specific techniques and conditioning for the sport of soccer. This includes drills, weight and flexibility training, and cardio-respiratory development.

31663 ATHL-022B-01 LAB 01:30-04:20 PM TTh FLANNERY UFWLD

Continued on next page.

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### Winter Quarter 2014 Courses

#### ATHL 31  INTERCOLLEGIATE SOFTBALL (WOMEN)  3 Units
Formerly: PHED 34E
Advisory: Only open to members of the Women’s Softball team; previous high school, club or collegiate softball playing experience. 14.5 hours lecture-laboratory. (174 total hours per quarter.) May be taken six times for credit. Competitive intercollegiate softball for experienced female athletes.

#### ATHL 32  INTERCOLLEGIATE SWIMMING (MEN & WOMEN)  3 Units
Formerly: PHED 35F
Advisory: Only open to members of the Swimming team. 14.5 hours lecture-laboratory. (174 total hours per quarter.) May be taken six times for credit. Practice for and participation in intercollegiate swimming and diving; emphasizing swimming and diving skills, fundamentals and strategies.

#### ATHL 42B  SPORT TECHNIQUES & CONDITIONING FOR WOMEN’S VOLLEYBALL  2 Units
6 hours laboratory. (72 total hours per quarter.) May be taken six times for credit. This course teaches and provides practice specific techniques and conditioning for the sport of volleyball. This includes drills, weight and flexibility training, and cardio-respiratory development.

#### ATHL 44  INTERCOLLEGIATE TENNIS (MEN)  3 Units
Formerly: H P 40E, PHED 35D
Advisory: Only open to members of the Men’s Tennis team. 14.5 hours lecture-laboratory. (174 total hours per quarter.) May be taken six times for credit. Competitive intercollegiate tennis working toward personal development, athletic scholarship, and career opportunities.

#### ATHL 45  INTERCOLLEGIATE TENNIS (WOMEN)  3-18 Unit
Formerly: PHED 34D
Advisory: Only open to members of the Women’s Tennis team. 14.5 hours lecture-laboratory. (174 total hours per quarter.) May be taken six times for credit. Competitive intercollegiate tennis working toward personal development, athletic scholarship, and career opportunities.

#### ATHL 70R  INDEPENDENT STUDY IN ATHLETICS  1-4 Unit
3 hours per week, per unit, as determined by unit value of the contracted project or course of study; 36-144 hours total. (0 total hours per quarter.) Not Repeatable. This course of study provides an opportunity for students to expand their studies in Athletics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

#### ATHL-070R-01  LEC  TBA TBA STAFF TBA
ATHL-070R-01: This is a variable unit course with a range of 1-4 units. Students must contact the division/instructor the first week of school in order to enroll.

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### Biology

**BIOL 1A  PRINCIPLES OF CELL BIOLOGY  6 Units**
Prerequisite: CHEM 1A.
Advisory: Students taking the biology majors’ sequence (BIOL 1A, 1B, 1C, 1D) are strongly advised to take the sequence in its entirety. 4 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. (120 total hours per quarter.) Not Repeatable. An introduction to basic terminology and major concepts of biology. (Not Repeatable.)

**BIOL 1B  FORM & FUNCTION IN PLANTS & ANIMALS  6 Units**
Prerequisite: BIOL 1A.
Advisory: Students taking the biology majors’ sequence (BIOL 1A, 1B, 1C, 1D) are strongly advised to take the sequence in its entirety. 4 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. (120 total hours per quarter.) Not Repeatable. 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. Intended for biology majors.

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LAB 08:30-10:20 PM W CIAMBRONE 5423

30588 BIOL-040A-08 LEC 05:30-07:20 PM MW CIAMBRONE 5423
LAB 08:30-10:20 PM W CIAMBRONE 5423

Not Repeatable.

BIOL 23 INTRODUCTION TO BIOTECHNOLOGY 5 Units
Formerly: BTEC 10
Advisory: Recent high school algebra or MATH 220; high school biology; eligibility for ENGL 1A or ESSL 26; not open to students with credit in BTEC 10.
4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

Provides basic scientific knowledge fundamental to the field of biotechnology, including cell and molecular biology. Emerging topics in biotechnology, including genetic engineering, biofuels, genetic testing, evolution, and drug development. Regulatory, social, ethical questions and dilemmas will be discussed and debated. Intended for all students. Fulfills Foothill GE/Natural Sciences requirement.

BIOL 40A HUMAN ANATOMY & PHYSIOLOGY I 5 Units
Prerequisite: High school biology or BIOL 10 or 14 or equivalent; high school chemistry or CHEM 30A or equivalent.
Advisory: ENGL 1A, ESSL 26 or equivalent.
4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

Basic human anatomy and physiology. Emphasis on integration of systems and homeostatic mechanisms. Physical and chemical basis of life, histology and integumentary, skeletal and muscular systems. Designed for majors that require fundamental background in human anatomy and physiology. Completion of this course is required for BIOL 40B.

BIOL 40B HUMAN ANATOMY & PHYSIOLOGY II 5 Units
Prerequisite: BIOL 40A or equivalent.
4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (84 total hours per quarter.)

BIOL 40C HUMAN ANATOMY & PHYSIOLOGY III 5 Units
Prerequisite: BIOL 40B or equivalent.
4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

Anatomy and physiology of the nervous system, cardiovascular system and respiratory system. Completion of this course is required for BIOL 40C.

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### Winter Quarter 2014 Courses

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**BIOL 41 MICROBIOLOGY**

**6 Units**

- **Prerequisite:** High school chemistry or CHEM 30A.
- **Advisory:** ESL 25 and 235; critical reading skills and knowledge of English sentence structure; ability to comprehend spoken English in academic context.
- **4 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. (120 total hours per quarter.)**
- **Not Repeatable.**

**Morphology and physiology of bacteria, fungi and viruses.**

**Mechanisms of pathogenicity, host-parasite relationships, the immune response and principles of disease transmission.**

**Techniques of microbial control including sterilization, aseptic procedures, use of disinfectants, antisepsics and chemotherapy.**

**Corequisite:** Completion of, or concurrent enrollment in BIOL 40C.

**Not Repeatable.**

**Introduction to the medical aspects of nutrition, intended for students wishing to pursue a career in health care. 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.**

**BUSINESS**

**Business & Social Sciences**

(650) 949-7322 www.foothill.edu/bsb/

See also Accounting. Certificate information: Business Management I and II Certificate of Achievement; Business Marketing Certificate of Achievement; Small Business Certificate of Achievement and Completion; and Business Dispute Resolution & Mediation Certificate of Completion (this certificate is also a Continuing Education Unit, CEU). For more information access www.foothill.edu/bsb.

**BUSI 11 INTRODUCTION TO INFORMATION SYSTEMS**

**5 Units**

- **Advisory:** MATH 220 or equivalent; BUSI 91L; eligibility for ENGL 1A or ESLL 26; not open to students with credit in CIS 10 or 60.
- **4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)**

- **Not Repeatable.**

**Introduction to the concepts of management and information systems especially as used in business and similar organizations.**

**Covers the need for information, how computers are used in business and other organizations to provide information, elements of computer hardware and software, software development, data storage and communication, programming concepts, and the social impact of computers.**

**Hands-on introduction to personal productivity software such as word processing, spreadsheet, database, and presentation applications.**

**BIOL 45 INTRODUCTION TO HUMAN NUTRITION**

**4 Units**

**Prerequisites:** CHEM 30A or 1 year of high school chemistry.

**Advisory:** ENGL 1A or ESLL 26.

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www.foothill.edu/fga/
BUSI 18 BUSINESS LAW I 5 Units
Advisory: Eligibility for ENGL 1A or ESSL 26; UC will accept for transfer credit either BUSI 18 or BUSI 19, not both.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
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.

BUSI 19 BUSINESS LAW II 4 Units
Advisory: BUSI 18; UC will accept for transfer credit either BUSI 18 or BUSI 19, not both.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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 5 Units
Advisory: Not open to students with credit in BUSI 52.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
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 53 SURVEY OF INTERNATIONAL BUSINESS 4 Units
Advisory: Not open to students with credit in BUSI 53 or BUSI 20.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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 54H HONORS INSTITUTE SEMINAR IN BUSINESS 1 Unit
Formerly: BUSI 34, 34H
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in BUSI 34 or 34H.
1 hour lecture. (12 total hours per quarter.)
Not Repeatable.
A seminar in directed readings, discussions, and projects in business. Specific topics to be determined by the instructor.

BUSI 55 PRINCIPLES OF ADVERTISING 4 Units
Advisory: Not open to students with credit in ADVT 57 or BUSI 81.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
Introduction to advertising as a part of the marketing process. Formulation of advertising strategies and creative development with the Pacific Rim, Eastern/Western Europe, Third World and developing nations. Analysis 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.

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## Winter Quarter 2014 Courses

### Computer Science

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<th>Title Activity</th>
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### BUSI 90A PRINCIPLES OF MANAGEMENT
4 Units
Advisory: Eligibility for ENGL 1A or ESLL 26.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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
4 Units
Formerly: BUSI 10
Advisory: Not open to students with credit in BUSI 10.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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 95 ENTREPRENEURSHIP - SMALL BUSINESS MANAGEMENT
4 Units
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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 59B E-BUSINESS
5 Units
5 Hours Lecture. (60 total hours per quarter.)
Not Repeatable.
Foundations and principles of electronic commerce and doing business on the Internet.
Topics include e-commerce 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 infrastructure.

### BUSI 90A PRINCIPLES OF MANAGEMENT
4 Units
Advisory: Eligibility for ENGL 1A or ESLL 26.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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
4 Units
Formerly: BUSI 10
Advisory: Not open to students with credit in BUSI 10.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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 95 ENTREPRENEURSHIP - SMALL BUSINESS MANAGEMENT
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### BUSI 90A PRINCIPLES OF MANAGEMENT
4 Units
Advisory: Eligibility for ENGL 1A or ESLL 26.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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.
## Winter Quarter 2014 Courses

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**C S 2A: OBJECT-ORIENTED PROGRAMMING METHODS IN C++**

Advisory: Satisfactory score on the mathematics placement test or MATH 105 or 106.

4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

This course is a systematic introduction to fundamental concepts of computer science through the study of the C++ programming language intended for Computer Science majors as well as non-majors and professionals seeking C++ programming experience. Coding topics include C++ control structures, objects, global-scope functions, class methods, arrays and elementary data structures. Concept topics include algorithms, recursion, data abstraction, problem solving strategies, code style, documentation, debugging techniques and testing.

**C S 2B: INTERMEDIATE SOFTWARE DESIGN IN C++**

Prerequisite: C S 2A.

Advisory: Eligibility for ENGL 1A or ESLL 26.

4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

This course is a systematic treatment of intermediate concepts in computer science through the study of C++ object-oriented programming (OOP) intended for Computer Science majors as well as non-majors and professionals seeking intermediate-level C++ experience. Coding topics include C++ derived classes, class templates, function templates, virtual functions, operator overloading, an introduction to the Standard Template Library, multiple inheritance, pointers, dynamic memory allocation and file I/O. Concept topics include OOP project design, inheritance, polymorphism, method chaining, functional programming, linked-lists, FIFOs, LIFOs, events in GUIs and guarded code.

**C S 10: COMPUTER ARCHITECTURE & ORGANIZATION**

Prerequisite: C S 1A or 2A.

Advisory: C S 1C or 2C.

4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

The course covers the organization, architecture and machine-level programming of computer systems. Topics include mapping of high-level language constructs into assembly code, internal data representations, numerical computation, virtual memory, pipelines, caching, multitasking, MIPS architecture, MIP Assembly language code, interrupts, input/output, peripheral storage processing, and comparison of CISC (Intel) and RISC (MIPS) instruction sets.

**C S 20A: PROGRAMMING IN C#**

Advisory: C S 1A or 2A or equivalent.

4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

This course is an introduction to the C# programming language and the .NET platform. It is intended for Computer Science majors as well as non-majors and professionals seeking C# programming experience. Topics include object oriented programming, graphical user interfaces, elementary data structures, algorithms, recursion, data abstraction, code style, documentation, debugging techniques and testing.

**C S 21A: PROGRAMMING IN PYTHON**

Advisory: C S 1A and 2A or equivalent.

4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

This course introduces students to the Python language and environment. It is intended for CS majors as well as non-majors and professionals seeking Python programming experience. Covers topics including object oriented programming, elementary data structures, modules, algorithms, recursion, data abstraction, code style, documentation, debugging techniques and testing.

**C S 30A: INTRODUCTION TO LINUX & UNIX**

4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

An introduction to the Linux and UNIX operating systems primarily focused on command line usage. Covers the history, kernel, file systems, shells and user utilities. Also introduces students to the fundamentals of shell programming, processes, communications, and basic security.

**C S 31A: INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS**

Advisory: C S 1A or C S 2A or equivalent.

4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

This course covers database design and use of database management systems for applications. Topics include database architecture, comparison to file-based systems, historical data models, conceptual model; integrity constraints and triggers; functional

Continued on next page.

Unless otherwise noted, Winter Quarter runs Jan. 6–March 28, 2014. All courses are Title 5 Degree applicable credit courses unless otherwise noted. All fee payments are due at time of registration. Instructors are not obligated to hold a seat for the student who is enrolled but does not attend the first class meeting. The course listings in this PDF were accurate as of Nov. 4, 2013. Be aware that course listing and footnote information may have changed. For the most accurate, current course listings, always access the online class schedule.
dependencies and normal forms; relational model, algebra, database processing and Structured Query Language (SQL), database access from Applications-Embedded SQL, JDBC, Cursors, Dynamic SQL, Stored Procedures. Emerging trends will be studied, such as NoSQL databases, Internet & Databases and On-Line Analytical Processing (OLAP). A team project that builds a database application for a real-world scenario is an important element of the course.

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C S 49 FOUNDATIONS OF COMPUTER PROGRAMMING 2.5 Units
Advisory: Satisfactory score on the mathematics placement test or MATH 105 or 108; concurrent enrollment in ESLL 25 or ENGL 209. 2 hours lecture, 2 hours laboratory. (48 total hours per quarter.) Not Repeatable.

This course is an introduction to basic computer programming concepts using an object-oriented language. It is intended for students who may wish to take C S 1A or C S 2A, but would like a more gradual entry to computing foundations prior to taking those faster-paced courses. Coding topics include hands-on practice with software engineering tools, simple programs, variables, control structures, functions, and input/output. Concept topics include the comprehension of specifications, adherence to style guidelines, and the importance of testing to ensure that programs are usable, robust and modifiable.

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C S 50A NETWORK FUNDAMENTALS (CCNA) 5 Units
4 hours lecture, 3 hours laboratory. (84 total hours per quarter.) Not Repeatable.

This course uses the OSI and TCP/IP network protocol models to explain the communications in data networks. Students will learn the fundamentals of IPv4 addressing to allow them to design network address spaces, calculate network and host addresses, and apply subnet masks. Topics covered include basic cabling, encoding signals on the media, network designs to interconnect devices, the use CLI commands to perform basic router and switch configuration and verification, analysis of the operations and features of the application, transport and network layer protocols and services. This course helps prepare the student for the Cisco CCNA certification.

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C S 50B IP ROUTING PROTOCOL FUNDAMENTALS (CCNA) 5 Units
Advisory: C S 50A. 4 hours lecture, 3 hours laboratory. (84 total hours per quarter.) Not Repeatable.

This course introduces routing and routing protocols in an IPv4 network. It includes the fundamentals of classfull and classless routing and routing protocols. The student learns the details of distance vector and link state routing protocols. RIP, EIGRP, and OSPF protocols are taught by both lecture and laboratory exercises. This course helps prepare the student for the Cisco CCNA certification.

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C S 50E INTRODUCTION TO IP NETWORK SECURITY 5 Units
Advisory: C S 50A, 50B, 50C and 50D or equivalent knowledge and skills. 4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)

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C S 52A ADVANCED IP ROUTING PROTOCOLS & SERVICES (CCNP) 5 Units
Advisory: C S 50A or equivalent experience. 4 hours lecture, 3 hours laboratory. (84 total hours per quarter.) Not Repeatable.

The ROUTE course is designed to help students advance their knowledge and skills and work independently on complex network solutions. Students will learn to plan, configure and verify the implementation of secure enterprise LAN and WAN routing solutions using a range of routing protocols. Course also teaches the configuration of solutions to support branch offices and mobile workers. This course uses the official Cisco Academy CCNP ROUTE curriculum and is designed to provide preparation for the CCNP ROUTE certification exam.

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C S 54A STORAGE AREA NETWORKS 5 Units
Advisory: C S 50A, 50B, and 50C. 4 hours lecture, 3 hours laboratory. (84 total hours per quarter.) Not Repeatable.

This course provides students a broad and in-depth knowledge of Storage and Storage networking concepts, applications, and technologies. Storage Fundamentals including storage attachment architectures, the SCSI protocol, disk and tape drive concepts, RAID and JBOD, IP-based SANs, and Storage Networking Issues. We also discuss the applications driving SAN adoption. This course is offered as part of the EMC Academic Alliance Program by an EMC trained instructor. This course also prepares students for the Information Storage and Management certification exam (E20-001). Students who pass the exam receive the Information Storage Associate (EMC2A) credential.

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C H E M I S T R Y
Physical Sciences, Mathematics & Engineering (650) 949-7259 www.foothill.edu/psme/
CHEM 1A, 1B, 25, 30A, 30B: If you have not taken the prerequisite(s) at Foothill College, you will not be allowed to register without an equivalency form from the counseling office or waiver from the division office.

CHEM 1A GENERAL CHEMISTRY 5 Units
Prerequisite: Satisfactory score on the chemistry placement test or CHEM 25; satisfactory score on the mathematics placement test or MATH 105 or 108. Advisory: Concurrent enrollment in ESLL 25 or ENGL 209. 3 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. (108 total hours per quarter.) Not Repeatable.

The course covers fundamental chemical principles with an emphasis on physical and chemical properties, stoichiometry, chemical reaction types, kinetic molecular theory, thermodynamics, modern atomic theory and atomic structure, chemical bonding and bonding theory, and molecular shapes. The laboratory component parallels lecture

Continued on next page ➔
topics and also includes chemical nomenclature, basic chemical equations, stoichiometry, unknown analysis, and fundamentals of oxidation and reduction.

CHEM-001A-01: Concurrent enrollment in Chemistry 70 is highly recommended to assist with your analytic and study skills in Chemistry. Internet access and B&W printing required. Color printing recommended. Additional costs for online materials or content in place of or in addition to a textbook may be required.

CHEM-001A-02: Concurrent enrollment in Chemistry 70 is highly recommended to assist with your analytic and study skills in Chemistry. Internet access and B&W printing required. Color printing recommended. Additional costs for online materials or content in place of or in addition to a textbook may be required.

CHEM-001A-03: Concurrent enrollment in Chemistry 70 is highly recommended to assist with your analytic and study skills in Chemistry. Internet access and B&W printing required. Color printing recommended. Additional costs for online materials or content in place of or in addition to a textbook may be required.

CHEM-001A-04: Concurrent enrollment in Chemistry 70 is highly recommended to assist with your analytic and study skills in Chemistry. Internet access and B&W printing required. Color printing recommended. Additional costs for online materials or content in place of or in addition to a textbook may be required.

CHEM-001A-05: Concurrent enrollment in Chemistry 70 is highly recommended to assist with your analytic and study skills in Chemistry. Internet access and B&W printing required. Color printing recommended. Additional costs for online materials or content in place of or in addition to a textbook may be required.

CHEM-001A-06: Concurrent enrollment in Chemistry 70 is highly recommended to assist with your analytic and study skills in Chemistry. Internet access and B&W printing required. Color printing recommended. Additional costs for online materials or content in place of or in addition to a textbook may be required.

CHEM-001A-07: Concurrent enrollment in Chemistry 70 is highly recommended to assist with your analytic and study skills in Chemistry. Internet access and B&W printing required. Color printing recommended. Additional costs for online materials or content in place of or in addition to a textbook may be required.

CHEM-001A-08: Concurrent enrollment in Chemistry 70 is highly recommended to assist with your analytic and study skills in Chemistry. Internet access and B&W printing required. Color printing recommended. Additional costs for online materials or content in place of or in addition to a textbook may be required.

CHEM 1B GENERAL CHEMISTRY

Prerequisite: CHEM 1A.

3 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. (108 total hours per quarter.)

Not Repeatable.

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.

CHEM 1C GENERAL CHEMISTRY & QUALITATIVE ANALYSIS

Prerequisite: CHEM 1B.

5 Units

3 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. (108 total hours per quarter.)

Not Repeatable.

Aqueous ionic equilibria of buffers, solubility product constants and formation constants; properties of solutions including factors affecting solubility, energy changes in the solution process and colligative properties/electrochemistry, including the thermodynamics of voltaic cells; introduction to coordination chemistry and bonding theory; nuclear chemistry with emphasis on applications; and, time permitting, an introduction to modern materials. Laboratory parallels lecture topics with an introduction to qualitative inorganic analysis.

CHEM 12A ORGANIC CHEMISTRY

Prerequisite: CHEM 1C.

6 Units

4 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. (120 total hours per quarter.)

Not Repeatable.

This course is the first quarter of a three quarter Sophomore level course describing the chemistry of organic (carbon containing) compounds. Emphasis on structure-reactivity relationships, mechanisms of functional group transformations, and the preparation, and purification of organic compounds. For biological science, chemistry,environmental science majors and students pursuing careers in dentistry, medicine, pharmacy, or veterinary medicine. Generally not appropriate for nursing majors (see CHEM 30B)

CHEM 12A-01: Additional costs for online materials or content in place of or in addition to a textbook may be required.
### CHEM 12B ORGANIC CHEMISTRY

**Prerequisite:** CHEM 12A.

4 hours lecture, 2 hours lecture-laboratory, 4 hours laboratory. (120 total hours per quarter.)

**Not Repeatable.**

This course is the second quarter continuation of a three quarter sophomore-level course in Organic Chemistry. Emphasis is on structure-reactivity relationships of organic compounds, mechanisms of functional group transformations, and synthesis of organic target compounds from simple precursors. Laboratory provides extensive practice in the synthesis, purification, isolation and characterization of organic target molecules. For chemistry, biological science, environmental science majors, and for pre-professional students in dentistry, medicine, pharmacy, veterinary medicine or any other interested students who have mastered the prerequisites.

**CHEM 20 I MATTER: INTRODUCTION TO GREEN CHEMISTRY & THE ENVIRONMENT**

**Prerequisite:** Satisfactory score on the Mathematics Placement Test or MATH 105 or 108.

Advisory: Concurrent enrollment in ESLL 25 or ENGL 209.

4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (84 total hours per quarter.)

**Not Repeatable.**

This course introduces students to one of the most significant emerging fields in modern chemistry, green chemistry, which connects the optimum use of chemistry to the well-being of humanity and the environment. The course will cover the fundamental principles of chemistry necessary to understand the source and fate of man-made chemical substances in the environment and potential impacts on human health. Chemical concepts such as atomic structure, bonding, thermodynamics, and chemical reactivity are introduced as they pertain to particular environmental issues. Basic chemical laboratory techniques and methods are included as well as a survey of important green chemical principles with an emphasis on inquiry and problem solving. Intended for students who wish to meet general education requirements in physical science.

**CHEM 25 FUNDAMENTALS OF CHEMISTRY**

**Prerequisite:** Satisfactory score on the mathematics placement test or MATH 105 or 108.

Advisory: Concurrent enrollment in ESLL 25 or ENGL 209.

4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (84 total hours per quarter.)

**Not Repeatable.**

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.

### Winter Quarter 2014 Courses

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<th>Title</th>
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Unless otherwise noted, Winter Quarter runs Jan. 6–March 28, 2014. All courses are Title 5 Degree applicable credit courses unless otherwise noted. All fee payments are due at the time of registration. Instructors are not obligated to hold a seat for the student who is enrolled but does not attend the first class meeting. The course listings in this PDF were accurate as of Nov. 4, 2013. Be aware that course listing and footnote information may have changed. For the most accurate, current course listings, always access the online class schedule.
### Winter Quarter 2014 Courses

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**CHEM 30B** SURVEY OF ORGANIC & BIOCHEMISTRY 5 Units

- **Prerequisite:** CHEM 30A.
- 4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (84 total hours per quarter.)
- Not Repeatable.

This is a 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.

**CHILD DEVELOPMENT**

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

CHILD Development offers a five-tier certificate program, with each certificate qualifying you for a higher level child development permit: Child Development Assistant Career Certificate, Child Development Associate Teacher Career Certificate, Child Development Teacher Career Certificate, Child Development Master Teacher Certificate, and Child Development Site Supervisor Certificate. For more information, access www.foothill.edu/bss

**CHILD 1** CHILD DEVELOPMENT: PRENATAL TO EARLY CHILDHOOD 4 Units

- Advisory: Not open to students with credit in CHLD 55. 4 hours lecture. (48 total hours per quarter.)
- Not Repeatable.

Development of the child from prenatal life through early childhood. In-depth study of the physical, cognitive, language and social-emotional development of children using observation to connect theory to practice.

- 30949 CHLD-001.-01 | LEC: 08:00-09:50 AM TTH KERBEY 3206
- + 30950 CHLD-001.-02 | LEC: 06:00-09:50 PM T SMITH MC J2

**CHILD 2** CHILD DEVELOPMENT: MIDDLE CHILDHOOD TO ADOLESCENCE 4 Units

- 4 hours lecture. (48 total hours per quarter.)
- Not Repeatable.

Development of the child from middle childhood through adolescence. In-depth study of the physical, cognitive, language and social-emotional development of children using observation to connect theory to practice.

- 30951 CHLD-001.-03W TBA TBA KERBEY ONLINE

**CHILD 3** CHILD DEVELOPMENT: INFANT/TODDLER DEVELOPMENT 3 Units

- 3 hours lecture. (36 total hours per quarter.)
- Not Repeatable.

Human growth and development from birth to three years within the context of the young child’s family, culture and community. Examination of developmental theory within the three distinct ages of infancy. Integration of physical, cognitive, language, social and emotional domains emphasizing the importance of relationships.

- + 30954 CHLD-002.-03W TBA TBA KERBEY ONLINE

**CHILD 4** CHILD DEVELOPMENT: CHILDHOOD TO ADOLESCENCE 4 Units

- Advisory: Eligibility for ENGL 1A or ESLL 26; not open to students with credit in CHLD 11.
- 4 hours lecture. (48 total hours per quarter.)
- Not Repeatable.

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

- + 30956 CHLD-002.-04W TBA TBA SMITH ONLINE

**CHILD 5** AFIRMING DIVERSITY IN EDUCATION 4 Units

- Formerly: CHLD 11
- Advisory: Eligibility for ENGL 1A or ESLL 26; not open to students with credit in CHLD 11.
- 4 hours lecture. (48 total hours per quarter.)
- Not Repeatable.

Focus on training in observation and assessment techniques in natural settings using a range of tools. Conducting formal observations and assessment that will guide development of curriculum. Child portfolio development and preparation for teacher-parent conferences. Recording strategies, rating systems, multiple assessment methods are explored.

- + 30965 CHLD-005A-01 TBA TBA KERBEY ONLINE

**CHILD 6** OBSERVATION & ASSESSMENT 4 Units

- Advisory: CHLD 1 and 56N.
- 4 hours lecture. (48 total hours per quarter.)
- Not Repeatable.

Focus on training in observation and assessment techniques in natural settings using a range of tools. Conducting formal observations and assessment that will guide development of curriculum. Child portfolio development and preparation for teacher-parent conferences. Recording strategies, rating systems, multiple assessment methods are explored.

- + 30957 CHLD-005A-02 TBA TBA SMITH ONLINE

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CHLD 56N  PRINCIPLES & PRACTICES OF TEACHING YOUNG CHILDREN  4 Units
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
An examination of the underlying theoretical principles of developmentally appropriate practices applied to early childhood programs and environments. Emphasizes the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative and intellectual development of the child.

CHLD 071  PLANNING CREATIVE ART ACTIVITIES FOR CHILDREN  1 Unit
1 hour lecture. (12 total hours per quarter.)
Not Repeatable.
Introduction to a variety of creative art activities for the young child. Exploration of a variety of tactile arts including paint, chalk, play dough, collage and crayons. Emphasis on developmentally appropriate curriculum development that encourages children’s imagination, creative thinking and self-expression.

CHLD 72  LANGUAGE DEVELOPMENT  3 Units
3 hours lecture. (36 total hours per quarter.)
Not Repeatable.
Development of language and speech, language acquisition theories, and emergent literacy in monolingual and young English language learners. Discussion of experiences and activities which promote oral and written language abilities. Focus on the developmental stages of receptive and expressive language, conversations, print awareness, phonemic awareness, reading and writing, bilingual development, and speech and language delays.

CHLD 73  MUSIC & MOVEMENT IN THE EARLY YEARS  3 Units
3 hours lecture. (36 total hours per quarter.)
Not Repeatable.
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. (12 total hours per quarter.)
Not Repeatable.
Developing science experiences for children. Activities involving plants, animals, and the physical properties of the environment. Emphasis on making science part of the everyday experience in early childhood program curriculum.

CHLD 86B  PRACTICUM STUDENT TEACHING IN AN EARLY CHILDHOOD PROGRAM  5 Units
Advisory: CHLD 1, 2, 56N and one of the following: CHLD 59, 79 or 89. 2 hours lecture, 10 hours laboratory. (144 total hours per quarter.)
Not Repeatable.
A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students will utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment; and knowledge of curriculum content areas will be emphasized as student teachers design, implement and evaluate experiences that promote positive development and learning for all young children.

CHLD 88  CURRICULUM FOR EARLY CARE & EDUCATION PROGRAMS  3 Units
Advisory: CHLD 1 or 2.
3 hours lecture. (36 total hours per quarter.)
Not Repeatable.
An overview of knowledge and skills related to providing appropriate curriculum and environments for young children from birth to six years. The course will include the essential elements of developing a curriculum framework emphasizing the roles of both the child and adult.

CHLD 90C  ADMINISTRATION & SUPERVISION OF CHILDREN'S PROGRAMS PART II  4 Units
Advisory: Completion of 9 units of child development courses. 4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
In addition to the study of the development of the components of a quality early care and education program including the administrator’s responsibilities in equipping the program, staffing, marketing the program, selecting, grouping and enrolling the children. Also included are the administrative responsibilities of food management, health and safety programs, evaluating center components, staff professional development, working with families, volunteers and the community.
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Counseling & Student Services (650) 949-7926 www.foothill.edu/counseling

Appointments: (650) 949-7423 Information: (650) 949-7926

All CNSL 50 classes meet the first 6 weeks of the quarter unless otherwise noted. It is recommended that the student complete math and English assessments before entering the CNSL 50 classes.

CNSL 50 COLLEGE SUCCESS 3 Units
3 hours lecture. (36 total hours per quarter.)
Not Repeatable.
Examination of factors that contribute to college success, including responsibility/control; competition; task precision; expectations; wellness; time management; college involvement; family/support systems involvement. Activities include: testing and individualized evaluations; group processing and practice.

31540 CNSL-001.01P CLAS 01:03:40 PM M VILLANUEVA 8330

CNSL 5 INTRODUCTION TO COLLEGE 1 Unit
1 hour lecture. (12 total hours per quarter.)
Not Repeatable.
Orientation to Foothill College academic policies, resources, programs, and services; introduction to California systems of higher education; formulation of educational plan.

31542 CNSL-005.02 CLAS 09:00:50 AM T Th LEW 8330
31543 CNSL-005.03 CLAS 09:00:50 AM T Th SERNA 4008
31544 CNSL-005.04 CLAS 10:10:50 AM T Th LEW 8330
31546 CNSL-005.05 CLAS 11:11:50 AM T Th DELGADO 8330
31547 CNSL-005.10I CLAS 04:05:30 PM MW GOODWIN 8330
31548 CNSL-005.11I CLAS 12:12:50 PM T Th LANE 8330
31549 CNSL-005.12I CLAS 12:12:50 PM T Th DENVER 6405
31550 CNSL-005.14W TBA TBA TBA WU ONLINE
31551 CNSL-005.15W TBA TBA TBA BERTANI ONLINE
31552 CNSL-005.16W TBA TBA TBA LEE ONLINE
31571 CNSL-005.17W TBA TBA TBA BERTANI ONLINE

CNSL 51 LEARNING STRATEGIES FOR COLLEGE SUCCESS (PASS THE TORCH PROGRAM) 1 Unit
Prerequisites: Concurrent enrollment in a math, English, or ESLL course; students are required to attend an orientation with the Pass the Torch Program prior to enrollment.
1 hour lecture. (12 total hours per quarter.)
Not Repeatable.
Develop, use, and assess effective and efficient learning strategies, implement a personalized study system. Topics include learning behaviors, attitudes, and styles; goal-setting and self-monitoring; time management, memory and concentration; lecture and textbook note taking; test preparation and test taking; and general strategies for successful college academic success. Students are required to demonstrate evidence of application of learning strategies to current academic coursework and to actively participate in class sessions. This course is specifically targeted for students participating in the Pass the Torch Program; a unique study team project that pairs high achieving community college students with students who self-select to join a study team.

31553 CNSL-051.01Q CLAS 12:01:15 PM M ARREOLA TRIGONIS 6405
CNSL-051.01Q: Course is designed for Pass the Torch members only. This is a late start class that meets 2/4/13-3/29/13. To register for the class, please visit the Pass the Torch office in Room 3526 or call (650) 949-7358.

31555 CNSL-051.02Q CLAS 12:01:15 PM T ARREOLA TRIGONIS 6201
CNSL-051.02Q: Course is designed for Pass the Torch members only. This is a late start class that meets 2/4/13-3/29/13. To register for the class, please visit the Pass the Torch office in Room 3526 or call (650) 949-7358.

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## Winter Quarter 2014 Courses

### COMMUNICATION STUDIES

**Fine Arts & Communication**  
(650) 949-7262  
www.foothill.edu/fa/  

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**COMM 1A PUBLIC SPEAKING**  
5 Units  
Advisory: Eligibility for ENGL 1A or ESLL 26, or equivalent; not open to students with credit in COMM 1AH or SPCH 1A.  
5 hours lecture. (60 total hours per quarter.)  
Not Repeatable.  
Introduction to the analysis, theory and history of rhetoric and public address; application of principles of public address to the preparation and delivery of public speeches.

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### COMM 4 GROUP DISCUSSION

**COMMENTS**  
5 Units  
Advisory: Eligibility for ENGL 1A or ESLL 26, or equivalent; not open to students with credit in SPCH 4.  
5 hours lecture. (60 total hours per quarter.)  
Not Repeatable.  
Analysis of the principles of group interaction and decision making. Participation in discussion groups designed to share information, solve problems and reach consensus.

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### COMM 10 GENDER, COMMUNICATION & CULTURE

**COMMENTS**  
5 Units  
Advisory: Eligibility for ENGL 1A or ESLL 26, or equivalent; not open to students with credit in SPCH 10.  
5 hours lecture. (60 total hours per quarter.)  
Not Repeatable.  
A comparative and integrative study of the interactive relationship between communication, gender, and culture in American society. Emphasis on the multiple ways communication in interpersonal relationships, educational institutions, organizations, media, and society in general creates and perpetuates gender roles. Analysis of gendered histories, traditions, and practices which normalize certain expectations, values, meanings, and patterns of behavior across cultural/racial lines (Native Americans, Latino Americans, European Americans, African Americans, Asian Americans, Gays, Lesbians, Bi-sexual, and Transgendered peoples).
WINTER QUARTER 2014 COURSES

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 55 CAREER & LEADERSHIP COMMUNICATION 5 Units
IN THE GLOBAL WORKPLACE
Advisory: Eligibility for ENGL 1A or ESLL 26 or equivalent; not open to students with credit in SPCN 55.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
Introduction to communication in organizational, career, leadership and global contexts. Interviewing, interpersonal and intercultural communication, group interactions, professional presentations, and leadership development. Application of theories and skills through critically evaluated exercises.

CRWR 41A POETRY WRITING 5-10 Unit
Advisory: Eligibility for ENGL 1A.
5 hours lecture, 1 hour laboratory. (72 total hours per quarter.)
Not Repeatable.
Explicit instruction and practice in writing poetry. Assignments include reading, analyzing and responding to published and student work and writing original work. Lecture and workshop.

CRWR 41B ADVANCED POETRY WRITING 5 Units
Prerequisite: CRWR 41A.
5 hours lecture, 1 hour laboratory. (60 total hours per quarter.)
Not Repeatable.
Explicit instruction and practice in writing poetry. Assignments include reading, analyzing and responding to published and student work and writing original work. Class presentations and workshop leadership. Lecture and workshop.

Career Life Planning
Counseling & Student Services (650) 949-7296

CRWR 41A POETRY WRITING 5-10 Unit
Advisory: Eligibility for ENGL 1A.
5 hours lecture, 1 hour laboratory. (72 total hours per quarter.)
Not Repeatable.
Explicit instruction and practice in writing poetry. Assignments include reading, analyzing and responding to published and student work and writing original work. Lecture and workshop.

CRWR 41B ADVANCED POETRY WRITING 5 Units
Prerequisite: CRWR 41A.
5 hours lecture, 1 hour laboratory. (60 total hours per quarter.)
Not Repeatable.
Explicit instruction and practice in writing poetry. Assignments include reading, analyzing and responding to published and student work and writing original work. Class presentations and workshop leadership. Lecture and workshop.

Creative Writing

Language Arts (650) 949-7678 www.foothill.edu/la/

CRWR 41A POETRY WRITING 5-10 Unit
Advisory: Eligibility for ENGL 1A.
5 hours lecture, 1 hour laboratory. (72 total hours per quarter.)
Not Repeatable.
Explicit instruction and practice in writing poetry. Assignments include reading, analyzing and responding to published and student work and writing original work. Lecture and workshop.

CRWR 41B ADVANCED POETRY WRITING 5 Units
Prerequisite: CRWR 41A.
5 hours lecture, 1 hour laboratory. (60 total hours per quarter.)
Not Repeatable.
Explicit instruction and practice in writing poetry. Assignments include reading, analyzing and responding to published and student work and writing original work. Class presentations and workshop leadership. Lecture and workshop.

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### Winter Quarter 2014 Courses

#### DENTAL ASSISTING

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**D A 51B INTERMEDIATE CLINICAL DENTAL ASSISTING**
Prerequisite: Admission to Dental Assisting Program.
1.5 hours lecture, 2 hours laboratory. (42 total hours per quarter.)
Not Repeatable.
Periodontal and oral surgery procedures, equipment, and instruments. Registered Dental Assistant orthodontic function. Fabrication of bleaching splints.

**D A 53B DENTAL RADIOGRAPHY II**
Prerequisite: Admission to Dental Assisting Program.
1 hour lecture, 3 hours laboratory. (48 total hours per quarter.)
Not Repeatable.
Intraoral radiographic technique continued with evaluation of film quality, recognition of landmarks, and film errors. Bitewing radiography is emphasized. Introduction to digital panoramic radiographs and identification of radiolucent and radiopaque landmarks of the head and neck. Intended for students enrolled in the dental assisting program.

**D A 56 DENTAL HEALTH EDUCATION**
1 Unit
Prerequisite: Admission to Dental Assisting Program.
1 hour lecture. (12 total hours per quarter.)
Not Repeatable.
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 for caries risk.

**D A 57 OFFICE EMERGENCY PROCEDURES**
2 Units
Prerequisite: Admission to Dental Assisting Program.
2 hours lecture. (24 total hours per quarter.)
Not Repeatable.
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 60A DENTAL OFFICE BUSINESS PRACTICES I**
2 Units
Prerequisite: Admission to Dental Assisting Program.
2 hours lecture. (24 total hours per quarter.)
Not Repeatable.
Introduction to appointment management, telephone techniques, communication and patient management, dental and office records management; written correspondence, treatment plan and case presentation; accounts receivables.

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**Dental Radiography I**
Prerequisite: Admission to Dental Assisting Program.
1 hour lecture-laboratory. (12 total hours per quarter.)
Not Repeatable.
Introduction to the radiology laboratory intended for the first year student enrolled in the dental hygiene program. Emphasis on the understanding of radiographic techniques, film development and mounting, and the application of digital radiography.

**Dental Radiography II**
Prerequisite: Admission to Dental Assisting Program.
2 hours lecture. (24 total hours per quarter.)
Not Repeatable.
Continued on next page.
### Winter Quarter 2014 Courses

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### WINTER QUARTER 2014 COURSES

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**DANCE**

**Kinesiology & Athletics** (650) 949-7741 www.foothill.edu/dance

**DANC 1A** BEGINNING BALLET 1 Unit
Advisory: This course is included in the Ballet & Conditioning family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
Introduction to the elementary fundamentals of classical ballet technique and training. Course includes the basic vocabulary and practice of beginning barre and center floor exercises.

**DANC 1B** INTERMEDIATE BALLET 1 Unit
Prerequisite: DANC 1A.
Advisory: This course is included in the Ballet & Conditioning family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
Continuation into the intermediate fundamentals of ballet technique and training. Includes the intermediate vocabulary and practice of barre and center floor exercises.

**DANC 2A** BEGINNING MODERN DANCE 1 Unit
Formerly: H P 32, DANC 2
Advisories: This course is included in the Dance Technique family of activity courses; not open to students with credit in DANC 2 or H P 32.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
Introduction to the elementary fundamentals of Modern Dance technique and training. Course includes the basic vocabulary and practice of beginning Modern center barre and floor exercises.

**DANC 2B** INTERMEDIATE MODERN DANCE 1 Unit
Prerequisite: DANC 2A.
Advisory: This course is included in the Dance Technique family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
Continuation into the intermediate fundamentals of Modern dance technique and training. Includes the intermediate vocabulary and practice of center floor and across the floor exercises.

**DANC 3A** BEGINNING JAZZ DANCE 1 Unit
Advisories: This course is included in the Dance Technique family of activity courses; not open to student with credit in H P 33.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
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
Prerequisite: DANC 3A.
Advisory: This course is included in the Dance Technique family of activity courses; not open to students with credit in H P 33A.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
This course gives students an opportunity to practice and develop intermediate jazz techniques. Emphasis on techniques presented as well as information on historical and stylistic perspectives of this dance form.

**DANC 4A** BEGINNING BALLROOM & SOCIAL DANCE 1 Unit
Formerly: DANC 4
Advisory: This course is included in the Social & Cultural Dance family of activity courses; not open to students with credit in DANC 4.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
Introduction to beginning ballroom and social dance techniques. Instruction and practice in beginning Swing, Cha-Cha, Waltz, Fox Trot, Rhumba and Tango dances.

**DANC 4B** INTERMEDIATE BALLROOM & SOCIAL DANCE 1 Unit
Prerequisite: DANC 4A.
Advisory: This course is included in the Social & Cultural Dance family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
Introduction to intermediate ballroom and social dance techniques. Instruction and practice in beginning Swing, Cha-Cha, Waltz, Fox Trot, Rhumba and Tango dances.

**DANC 5** WORLD DANCE 1 Unit
Advisory: This course is included in the Social & Cultural Dance family of activity courses; not open to students with credit in H P 47D.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
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 10** TOPICS IN DANCE HISTORY 4 Units
Advisory: Not open to students with credit in H P 70.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
A comprehensive study of the evolution of theatrical dance in the western world from the 16th century through the present day. Includes the eras of French court ballet, ballet d'action, romantic and classical ballet, modern, post-modern and contemporary dance. Examines topics in dance as an art form, including history, traditions, trends; outstanding artists and works; practice in observing and understanding dance in a historical and cultural context. Analysis of dance as an expression of social order, power, classical art, a medium of cultural fusion, and as an expression of individual artists.

Continued on next page.
Winter Quarter 2014 Courses

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DANC 11B: Choreography for Performance I (4 Units)
Advisory: This course is included in the Dance Performance family of activity courses.
2 hours lecture, 6 hours laboratory. (96 total hours per quarter.)
Not Repeatable.
Introduction to the basic concepts of choreography and dance composition. Students will be given the opportunity to create original beginning dance works for individuals and groups to be performed in front of a live audience. Includes beginning dance technique and practice of basic choreographic skills.

DANC 12B: Choreography for Performance II (4 Units)
Prerequisite: DANC 11B.
Advisory: This course is included in the Dance Performance family of activity courses.
2 hours lecture, 6 hours laboratory. (96 total hours per quarter.)
Not Repeatable.
Continuation into the intermediate level concepts of choreography and dance composition. Students will be given the opportunity to create intermediate original dance works for individuals and groups to be performed in front of a live audience. Includes intermediate dance technique and practice of complex choreographic skills.

DANC 13A: Introduction to Contemporary Dance (1 Unit)
Advisory: This course is included in the Dance Technique family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
Introduction to the fundamental techniques of Contemporary Dance. Emphasis is placed on the development of the knowledge and understanding of the principles of Contemporary Dance including basic movement theory, technique and repertoire from global artists.

DANC 14: Dance Conditioning (1 Unit)
Advisory: This course is included in the Ballet & Conditioning family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
Introduction to the principles of dance and conditioning through floor work derived from various dance disciplines including ballet, jazz, contemporary and other psycho-physical disciplines. Topics may include body mechanics, muscle groups critical to dance, flexibility, alignment, self-assessment, dance injury prevention, and strengthening the mind-body-spirit connection.

DANC 18A: Introduction to Hip Hop Dance (1 Unit)
Advisory: This course is included in the Social & Cultural Dance family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
An introduction to the technique of Hip Hop dance with an integrated fitness approach that focuses on developing the stabilization muscles of the center of the body. Concentration will be on isolations of the muscles of the torso, back, hips, inner and outer thighs, chest and abdominals in conjunction with breathing, postural alignment and body awareness.

Diagnostic Medical Sonography

<table>
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<tr>
<th>Course Number</th>
<th>CRN</th>
<th>Course ID</th>
<th>Title Activity</th>
<th>Units</th>
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<td>DMS 52C</td>
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Unless otherwise noted, Winter Quarter runs Jan. 6–March 28, 2014. All courses are Title 5 Degree applicable credit courses unless otherwise noted. All fee payments are due at time of registration. Instructors are not obligated to hold a seat for the student who is enrolled but does not attend the first class meeting. The course listings in this PDF were accurate as of Nov. 4, 2013. Be aware that course listing and footnote information may have changed. For the most accurate, current course listings, always access the online class schedule.

www.foothill.edu
DMS 54A  GYNECOLOGY  2 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
2 hours lecture, 1 hour online laboratory. (36 total hours per quarter.)
Not Repeatable.
Anatomy and physiology of the nongravid pelvis. Pathology, sonographic appearance, and clinical symptoms of the female patient. Sonographic protocols and measurements with correlations to accepted standards. One hour per week will be spent in completing online exams and working on patient case studies.

DMS 60B  CRITIQUE & PATHOLOGY II  1 Unit
Prerequisite: Admission to Diagnostic Medical Sonography Program.
1 hour lecture. (12 total hours per quarter.)
Not Repeatable.
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 I  8.5 Units
Prerequisites: DMS 72A.
32 hours laboratory. This is a 13 week course. (415.92 total hours per quarter.)
Not Repeatable.
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 elementary level for abdominal and gynecological examinations as to delineate complete anatomic and functional information for interpretation.

DMS 70E  CLINICAL PRECEPTORSHIP V  8.5 Units

Prerequisite: DMS 70D.
32 hours laboratory. This is a 13 week course. (415.92 total hours per quarter.)
Not Repeatable.
Designed as a preceptorship in a medical setting to obtain the technical expertise with emphasis on the advanced-graduate mastery of knowledge, skills, and abilities required performing all types of sonographic studies and procedures. The major emphasis is on terminal competencies leading to program completion.

DMS 80A  ADVANCED SONOGRAPHIC PRINCIPLES  4 Units
Prerequisite: Admission to the Diagnostic Medical Sonography Program.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
Continuation of all courses as well as new developments with advanced analysis of various sonographic practice. Final preparation for completion and participation of national registry examinations. Student presentation and critique of neoplastic cases.

ECON 1A  PRINCIPLES OF MACROECONOMICS  5 Units
Advisory: MATH 105; eligibility for ENGL 1A or ESLL 26.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
Fundamental economic concepts; determination of national income and employment; income fluctuation; money and the banking system; government monetary and fiscal policies; current economic problems; economic development; international trade. ECON 1A or ECON 1B may be taken in either order.

Economics

Business & Social Sciences  (650) 949-7322  www.foothill.edu/bss/
For more information about the online economics degree, access www.foothillglobalaccess.org/main/aa_econ.htm

ECON 1A  PRINCIPLES OF MACROECONOMICS  5 Units
Advisory: MATH 105; eligibility for ENGL 1A or ESLL 26.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
Fundamental economic concepts; determination of national income and employment; income fluctuation; money and the banking system; government monetary and fiscal policies; current economic problems; economic development; international trade. ECON 1A or ECON 1B may be taken in either order.

30111 ECON-001A-01 LEC 08-09:50 AM TTh EVANS 3307
30258 ECON-001A-02 LEC 10-11:50 AM TTh MOGLEN 3106
30112 ECON-001A-03 LEC 08-09:50 AM MW PATYK 3308
30212 ECON-001A-04W LEC TBA PATYK ONLINE

30111 ECON-001A-01 LEC 08-09:50 AM TTh EVANS 3307
30258 ECON-001A-02 LEC 10-11:50 AM TTh MOGLEN 3106
30112 ECON-001A-03 LEC 08-09:50 AM MW PATYK 3308
30212 ECON-001A-04W LEC TBA PATYK ONLINE

ECON-001A-04W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/uga for information on how to begin.

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<table>
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<tr>
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**ECON 9 POLITICAL ECONOMY**

Advisory: Eligibility for ENGL 1A or ESLl 26.

5 hours lecture. (60 total hours per quarter.)

Not Repeatable.


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**ECON 25 INTRODUCTION TO THE GLOBAL ECONOMY**

Advisory: ECON 1A and 1B.

4 hours lecture. (48 total hours per quarter.)

Not Repeatable.

Analysis of increasing economic integration in the post-WW II era with a focus on international trade and investment. Introduction to international economic organizations such as the WTO and IMF.

<table>
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<th>Course Number</th>
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**EMERGENCY MEDICAL TECHNICIAN**

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**EMERGENCY MEDICAL TECHNICIAN:**

**Prerequisites:** Students must either possess a current EMT-1 certificate or a certification which has been expired for no more than 24 months (must complete before the end of that month); current certification in American Red Cross CPR-BLS for the Professional Rescuer or American Heart Association CPR for the Healthcare Provider.

3 hours lecture-laboratory. (36 total hours per quarter.)

Not Repeatable.

This is a 36 hour course which meets the education requirements as specified by the California Emergency Medical Services Authority, the Emergency Medical Authority of Santa Clara County and the National Registry of EMT (NREMT). It is intended for both pre-employed personnel and those persons currently employed by a fire department or ambulance service within the County of Santa Clara. It will be a review and update the knowledge and skills required for basic certification.

Continued on next page
EMERGENCY MEDICAL TECHNICIAN – PARAMEDIC

Biological & Health Sciences (650) 949-6955 www.foothill.edu/bio/programs/paramed/

There is a selective admission process to enroll in these courses. For an application, call (650) 949-6955. EMTP is an advanced paramedic education program.

EMTP 61A PARAMEDIC COGNITIVE & AFFECTIVE II A 8 Units

Prerequisites: EMTP 60A and 60B.
Advisory: Not open to students with credit in EMTP 100B.
Corequisite: EMTP 61B and 63A.
8 hours lecture. (96 total hours per quarter.) Not Repeatable.

This course is a continuation of EMTP 60A, the second of three modularized lecture series which paramedic students will learn and discuss Airway anatomy and management, EKG, 12 leads and discuss various respiratory emergencies. In addition students will learn and discuss neurological disorders, cardiovascular emergencies, musculoskeletal injuries and treatment, and GI, and GU anatomy and disorders. The program is designed to prepare student for employment as paramedic working for various EMS agencies, such as ambulance services, fire agencies, fixed & rotary wing operations, and hospital emergency departments. Intended for students admitted into the Paramedic Program.

EMTP 61B PARAMEDIC COGNITIVE, AFFECTIVE & PSYCHOMOTOR IIB

1 Unit

Prerequisites: EMTP 60A and 60B.
Advisory: Not open to students with credit in EMTP 100B.
Corequisite: EMTP 61A and 63A.
1 hour lecture, 6.5 hours laboratory. (90 total hours per quarter.) Not Repeatable.

The cognitive, psychomotor, and affective basis for EMT students wishing to become EMT paramedics. The paramedic: anatomy and physiology; patient assessment; respiratory ambulance 911 call simulations and case studies; nebulizer/BVM set-up; pleural decompression; digital intubation; foreign body airway obstruction; neurological ambulance 911 call simulations and case studies; blood glucose analysis; medication administration; pharmacology; pediatric advanced life support ambulance 911 call simulations and case studies; non-traumatic abdominal 911 call simulations and case studies; bleeding control & shock management; pressure influsers; intubation with spinal immobilization; intravenous access; overdose and poisoning ambulance 911 call simulations and case studies.

EMTP 63A PARAMEDIC HOSPITAL SPECIALTY ROTATIONS

1 Unit

Prerequisites: EMTP 60A and 60B.
Advisory: Not open to students with credit in EMTP 102.
Corequisites: EMTP 61A and 61B.
4.5 hours clinic. (54 total hours per quarter.) Not Repeatable.

Application of skills that demonstrate principles and concepts of anatomy, physiology,
### ENGL 1B

#### COMPOSITION, CRITICAL READING & THINKING

<table>
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Prerequisite: ENGL 1A or ENGL 1AH or ENGL 1T or ESLL 26. Advisory: Not open to students with credit in ENGL 1B. 5 hours lecture, (60 total hours per quarter.)

Not Repeatable.

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.

### ENGL 1C

#### ADVANCED COMPOSITION

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Prerequisite: ENGL 1A or ENGL 1AH or ENGL 1T or ESLL 26. Not Repeatable.

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 for students preparing to transfer to four-year colleges and universities.

### ENGL 1S

#### INTEGRATED COMPOSITION & READING

<table>
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Prerequisite: Eligibility based on appropriate assessment information: CPT reading score of 55 (based on Ability to Benefit (ATB) standards); or ENGL 110 placement.

Advisory: Faculty recommendation for enrollment; if the student intends to use ENGL 1S & 1T combination to satisfy the Foothill General Education Requirement for Area II, English, the student must complete ENGL 1S & 1T. Also, to receive UC transfer credit for ENGL 1A, the student must complete ENGL 1S & 1T, and UC will transfer 5 units maximum for the combination of these two courses.

Corequisite: ENGL 242A

5 hours lecture. (60 total hours per quarter.) Not Repeatable.

Integrated reading and writing pathway that scaffolds instruction in freshman composition outcomes over two quarters, ENGL 1S and ENGL 1T respectively. Over this 2 quarter timeframe, students will read substantial quantities of college-level texts and write a total of 10,000 words, comprised of a minimum of 10 compositions (7 out-of-class and 3 in-class) to practice the techniques of critical reading, critical thinking, and written communication. Reading focused primarily on works of non-fiction prose, including published and student

Continued on next page
writing, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. ENGL 1S is the first half of ENGL 1S/T.

ENGL 1T INTEGRATED COMPOSITION & READING 5 Units
Formerly: ENGL 42T
Prerequisite: ENGL 1S.
Advisory: Student should enroll with the same instructor as taken for ENGL 1S; if the student intends to use ENGL 1S & 1T combination to satisfy the Foothill General Education Requirement for Area II, English, the student must complete ENGL 1S & 1T. Also, to receive UC transfer credit for ENGL 1A, the student must complete ENGL 1S & 1T, and UC will transfer 5 units maximum for the combination of these two courses; student may enroll in ENGL 1T or 1A, but not both, for credit.
Corequisite: ENGL 242B.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
Integrated reading and writing pathway that scaffolds instruction in freshman composition outcomes over two quarters, ENGL 1S and ENGL 1T respectively. Over this 2 quarter stretch, students read substantive quantities of college-level texts and write a total of 10,000 words, comprised of a minimum of 10 compositions (7 out-of-class and 3 in-class) to practice the techniques of critical reading, critical thinking, and written communication. Reading focused primarily on works of non-fiction prose, including published and student writing, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. ENGL 1T is the second half of ENGL 1S/T.

ENGL 1AH HONORS COMPOSITION & READING 5 Units
Prerequisites: Eligibility based on appropriate assessment information or completion of ENGL 110 and ENGL 209; Honors Institute participant.
Advisory: Not open to students with credit in ENGL 1A or ENGL 1T.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
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.
The 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 1BH HONORS COMPOSITION, CRITICAL READING & THINKING 5 Units
Prerequisites: ENGL 1A or ENGL 1AH or ENGL 1T or ENGL 26; Honors Institute participant.
Advisory: Not open to students with credit in ENGL 1B.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
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.
The honors section offers a challenging intellectual environment for students intending to transfer to a four-year college or university. Class discussion and assignments focus on literature as a reflection of multiple perspectives, social constructs, and cultural values. Course fosters an understanding and appreciation of various literary genres and includes logic and literary theory. Emphasis on rhetorical strategies and 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 24 UNMASKING COMICS: THE DAWN OF THE GRAPHIC NOVEL 4 Units
Prerequisite: Eligibility for ENGL 1A.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
This course will introduce the history of graphic communication, emphasizing the burgeoning and dynamic form of contemporary graphic narrative: from memoir writing, to crime fiction, to the superhero, to socio-political writing. Explore how the history and evolution of this distinct literary genre has made it a relevant form of expression for artists and writers across the world and how reading comics challenges traditional modes of reading. Because this form of storytelling is used by artists all over the world to express the human condition and specific socio-cultural insight, the course inspires world-wide cross-cultural awareness.

ENGL 48B AMERICAN LITERATURE IN THE GILDED AGE: 1865-1914 4 Units
Prerequisite: Eligibility for ENGL 1A or ENGL 1AH or 1T or ENGL 26.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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. Du Bois; 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.

ENGL 110 INTRODUCTION TO COLLEGE WRITING 5 Units
Prerequisite: Eligibility based on assessment or successful completion of ENGL 209.
Advisory: Not open to students with credit in ENGL 108.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
Prerequisite: Eligibility based on appropriate assessment information or completion of ENGL 110 and ENGL 209; Honors Institute participant.
Advisory: Not open to students with credit in ENGL 1A or ENGL 1T.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
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.
The 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.

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www.foothill.edu
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.

Intended for students requiring 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.

ENGL 209 INTRODUCTION TO COLLEGE READING
Formerly: ENGL 100
Advisory: Not open to students with credit in ENGL 100 or 108. 5 hours lecture. (60 total hours per quarter.)
Not Repeatable.

Techniques of critical analysis for reading-college level prose, focusing primarily on expository/argumentative essays and textbook materials. Students learn to comprehend text holistically, identifying and expressing critical elements of comprehension. Practice and testing to be done on authentic text of one or more page length and with written responses. Lecture, discussion, group work, and individualized instruction.

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ENC 35 Statics 5 Units
Prerequisites: MATH 1B and PHYS 4A.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
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.

ENC 37 Introduction to Circuit Analysis 5 Units
Prerequisites: MATH 1B and PHYS 4B.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
Analysis of lumped, linear circuits in steady state DC and AC. Principals and Laws are used such as Ohm's Law and Kirchhoff's Law, Thévenin's and Norton's Theorem. Method of analyze circuit also include Linearity, Superposition, Source Transformation, and Maximum Power Transfer. First and second order circuits' complete response, AC power and steady-state analysis, frequency and transient response and circuits using op-amps.

ENC 37L Circuit Analysis Laboratory 2 Units
Corequisite: ENC 37.
1 hour lecture-laboratory, 3 hours laboratory. (48 total hours per quarter.)
Not Repeatable.
Practical verification of theorems and concepts learned in ENC 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.

ENC 39 Energy, Society & the Environment 5 Units
Advisory: MATH 10 or 57.
4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)
Not Repeatable.
Guides the general education student without a science or technology background through humanity's efforts to harness and generate energy, for industry, work, habitat and recreation. Serves as a formal introduction to work, energy and efficiency, from human's earliest endeavors building pyramids to the development of railroads, the automobile and airplane, nuclear power, and alternative energy sources. Topics include energy, work, and power, steam and internal combustion engine, electricity, cars and transportation, and atomic energy. Emphasis on the environmental impact from acid rain, smog and the greenhouse effect, to pollution from coal, natural gas, and petroleum extraction, to nuclear accidents. Includes a comprehensive overview of sustainable energy systems, megacities, LEED and high efficiency buildings, and integrated food, water, and transportation services. Discussion and reflection on global population and consumption driven economic models.

ENC 49 Engineering Profession 1 Unit
1 hour lecture. (12 total hours per quarter.)
Not Repeatable.
A study of the engineering profession, its requirements, opportunities and responsibilities.

ENGR 037-01: Additional costs for online materials or content in place of or in addition to a textbook may be required.

ENGR 35 Statics 5 Units
Prerequisites: MATH 1B and PHYS 4A.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
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 37 Introduction to Circuit Analysis 5 Units
Prerequisites: MATH 1B and PHYS 4B.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
Analysis of lumped, linear circuits in steady state DC and AC. Principals and Laws are used such as Ohm's Law and Kirchhoff's Law, Thévenin's and Norton's Theorem. Method of analyze circuit also include Linearity, Superposition, Source Transformation, and Maximum Power Transfer. First and second order circuits' complete response, AC power and steady-state analysis, frequency and transient response and circuits using op-amps.

ENGR 37L Circuit Analysis Laboratory 2 Units
Corequisite: ENC 37.
1 hour lecture-laboratory, 3 hours laboratory. (48 total hours per quarter.)
Not Repeatable.
Practical verification of theorems and concepts learned in ENC 37 (Circuit Analysis) through experimentation. Included will be experiments in DC and AC circuits involving the utilization of a variety of instruments such as DC/AC meters, regulated power supplies, signal generators, oscilloscopes and frequency counters.

ENGR 39 Energy, Society & the Environment 5 Units
Advisory: MATH 10 or 57.
4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)
Not Repeatable.
Guides the general education student without a science or technology background through humanity's efforts to harness and generate energy, for industry, work, habitat and recreation. Serves as a formal introduction to work, energy and efficiency, from human's earliest endeavors building pyramids to the development of railroads, the automobile and airplane, nuclear power, and alternative energy sources. Topics include energy, work, and power, steam and internal combustion engine, electricity, cars and transportation, and atomic energy. Emphasis on the environmental impact from acid rain, smog and the greenhouse effect, to pollution from coal, natural gas, and petroleum extraction, to nuclear accidents. Includes a comprehensive overview of sustainable energy systems, megacities, LEED and high efficiency buildings, and integrated food, water, and transportation services. Discussion and reflection on global population and consumption driven economic models.

ENGR 49 Engineering Profession 1 Unit
1 hour lecture. (12 total hours per quarter.)
Not Repeatable.
A study of the engineering profession, its requirements, opportunities and responsibilities.

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ESLL 226 HIGH-INTERMEDIATE GRAMMAR 5 Units

Formerly: ESL 156
Prerequisite: Appropriate placement test score or ESLL 201B.
Advisory: Concurrent enrollment in ESL 226; not open to students with credit in ESL 156.
5 hours lecture, (60 total hours per quarter.)
Not Repeatable.

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.

ESLL 227 HIGH-INTERMEDIATE READING SKILLS 5 Units

Formerly: ESL 157
Prerequisite: Appropriate placement test score or ESLL 210B.
Advisory: Concurrent enrollment in ESL 227; not open to students with credit in ESL 156.
5 hours lecture, (60 total hours per quarter.)
Not Repeatable.

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.

ESLL 235 LISTENING/SPEAKING FOR ACADEMIC PURPOSES 5 Units

Formerly: ESL 165
Prerequisite: Appropriate placement test score or ESLL 225.
Advisory: Successful completion of ESLL 226 and ESL 227 strongly recommended; designed for students whose native language is not English; not open to students with credit in ESL 165.
5 hours lecture, (60 total hours per quarter.)
Not Repeatable.

A listening/speaking course focusing on preparing students for listening to authentic lectures and classroom discussions. Practice with classroom interactional, discussion and presentation skills. Pronunciation work to develop intelligible speech and ability to comprehend naturally spoken English in academic contexts. Level appropriate reading and writing tasks in connection with these activities.

ESLL 246 APPLIED GRAMMAR & EDITING SKILLS 3 Units

Formerly: ESL 176
Prerequisite: Completion of ESLL 236 or an appropriate score on the ESL placement test.
Advisory: Not open to students with credit in ESL 176.
Corequisites: Concurrent enrollment in ESL 25, 26, ENGL 110, 1A or 1B.
3 hours lecture. (36 total hours per quarter.)
Not Repeatable.

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.

ESLL 247 ADVANCED VOCABULARY DEVELOPMENT 3 Units

Formerly: ESL 177
Prerequisites: Appropriate placement test score or successful completion of ESLL 236 and 237.
Advisory: Designed for students whose native language is not English; not open to students with credit in ESL 177.
3 hours lecture. (36 total hours per quarter.)

Continued on next page...
**WINTER QUARTER 2014 COURSES**

**GEOGRAPHY**

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

Two GIS certificates are available: Certificate of Achievement in Geographic Information Systems and Career Certificate for Geographic Information Systems Analyst. For information on the online degree program, visit www.foothillglobalaccess.org/main/aa_geography_new.htm. For general information, visit www.foothill.edu/bss.

**GEOG 1 PHYSICAL GEOGRAPHY**  5 Units

Advisory: Eligibility for ENGL 1A or ESLL 26; MATH 220.

4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (84 total hours per quarter.)

- Not Repeatable.

- 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 ESLL 26.

4 hours lecture. (48 total hours per quarter.)

- Not Repeatable.

- 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.

**ESLL 248 ADVANCED GRAMMAR REVIEW**  3 Units

Prerequisite: ESLL 236 or an appropriate score on the ESL Placement Test.

Advisory: Not open to students with credit in ESLL 186.

3 hours lecture, (36 total hours per quarter.)

- Not Repeatable.

- A review of essential grammar and greater in-depth examination of grammatical and lexical structures used in academic and professional writing designed for native speakers of English. This course is delivered entirely online.

**ESLL 249 ESLL 249-01W LEC TBA TBA WONG ONLINE**

ESLL249.01W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin.

- 3 hours lecture. (36 total hours per quarter.)

**GERONTOLOGY**

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

**GERN 52 HEALTH & AGING**  3 Units

3 hours lecture. (36 total hours per quarter.)

- Not Repeatable.

- An introduction to normal physical changes in older adults without significant disability, common diseases and disabilities that occur in old age, health promotion/disease prevention strategies, and health care policies and practices.

**GRAPHICS & INTERACTIVE DESIGN**

Fine Arts & Communication  (650) 949-7262  www.foothill.edu/graphicdesign/

**GID (Graphics and Interactive Design): Formerly GRDS (Graphic Design)**

**GID 2 THE HISTORY OF THE PRINTED BOOK**  4 Units

4 hours lecture. (48 total hours per quarter.)

- Not Repeatable.

- A study of the Printed Book covering the last 500 years. Students will learn about books before and after Gutenberg. Emphasis will be on significant milestones of published books from Incunabula (1400-1500) to present covering printing, papermaking, bookbinding and typography. Manuscripts, hand printed books, machine printed books, and fine press/artist books will be discussed. All major type designers, type-cutters and printers will be covered.

**GID 33 GRAPHIC DESIGN STUDIO I**  4 Units

Formerly: GID 50

Advisory: Not open to students with credit in GID 50 or GRDS 53.

3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)

- Not Repeatable.

- Business & Social Sciences (650) 949-7322 www.foothill.edu/bss/
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Introduction to graphic design and visual communication. Projects include composition, typography, image editing and logo design. Design principles are explored through creative projects. Students practice fundamental software skills using Adobe Photoshop, Illustrator, and InDesign to complete the graphic design activities in this course.

GID 34 GRAPHIC DESIGN STUDIO II
Formerly: GID 51
Prerequisite: GID 33.
Advisory: Not open to students with credit in GID 51.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
Continuation of GID 33. Students engage in problem solving with real-world graphic design projects. Focus on creative solutions that effectively use type, image, and layout. Projects include brochure, advertisement, interface, and package design. Creative ideas are explored in sketches, rough layouts, and finished comps. Students learn software skills using Adobe InDesign, Illustrator, and Photoshop to complete the graphic design activities in this course.

GID 35 GRAPHIC DESIGN STUDIO III
Formerly: GID 52
Prerequisite: GID 33.
Advisory: Not open to students with credit in GID 52.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
Continuation of GID 34. Students design and produce a real-world graphic design campaign. Focus on creative solutions that effectively use type, image, and layout. Projects include branding, identity, newsletter, web site, and package design. Creative ideas are explored in sketches, rough layouts, comps, and final presentations. Students learn software skills using Adobe Acrobat, InDesign, Illustrator, Photoshop, and Dreamweaver to complete the graphic design activities in this course.

GID 36 TYPOGRAPHY
Formerly: GID 54
Advisory: GID 33 and 41 or proficiency using Illustrator software; not open to students with credit in GID 54 or GRDS 62.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
Exploration and experimentation with letter forms and page layout for expressive communication. Fundamental typographic principles, font recognition, and analysis of both historical and post modern design theory. Emphasis on content, form, and technique for effective use of typography in ads, posters, newsletters and other visual communications.

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### Winter Quarter 2014 Courses

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### GEOSPATIAL TECHNOLOGY

#### Business & Social Sciences

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### HISTORY

#### Business & Social Sciences

For more information about the online history degree access www.foothillglobalaccess.org/main/aa_history.htm

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HIST 4A  HISTORY OF WESTERN CIVILIZATION TO 800 AD  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Survey of the development of Western culture and civilization in the ancient world. From the Neolithic period to the early Middle Ages.

HIST 4B  HISTORY OF WESTERN CIVILIZATION: 700-1800  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
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 1789-PRESENT  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26; not open to students with credit in HIST 4CH.
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.
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 10  HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
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 17A  HISTORY OF THE UNITED STATES TO 1816  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Survey of United States history. Political, economic and social development.

HIST 17B  HISTORY OF THE UNITED STATES FROM 1812 TO 1914  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
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.
Survey of United States history and its political, economic and social development.

HIST 20  HISTORY OF RUSSIA & THE SOVIET UNION  4 Units
Advisory: Eligibility for ENGL 1A or ESL 26.
Survey of Russian and political and social development from the 10th Century to the present. Emphasis on post-revolutionary Russia and problems of authoritarian modernization, independence, political and economic integration and industrialization.
## Health

### Biological & Health Sciences (650) 949-7249

<table>
<thead>
<tr>
<th>Course Number</th>
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<th>Instructor</th>
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**Advisory:** English 1A or ESL 25.

4 hours lecture. (48 total hours per quarter.)

Not Repeatable.

Development of understanding and attitudes relative to personal, family, and community health needs. Emphasis placed upon medical care, nutritional behavior, and substance abuse. Attention given to the role of physical activity and the ecological conditions of health significance. Study of common lifestyle behaviors that contribute to health concerns affecting individuals, communities, and society. Emphasis upon self-help and preventable aspects of medical care. Intended for students in health careers programs as well as those who wish to identify and evaluate contemporary personal health practices in order to establish a plan for change.

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**Environmental Horticulture & Design**

Biological & Health Sciences (650) 949-7249

www.foothill.edu/bio/programs/hort/}

### HORT 10

- **Environmental Horticulture & the Urban Landscape**
  - **Units:** 5

4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

Environmental horticulture encompasses the planning, design, construction, and management of the urban landscape. Relevant topics include ecosystem restoration and management, landscape ecology, sustainable landscape management, sustainable use of natural resources, urban horticulture, and urban landscape design. This course is required for Horticulture certificates and degrees, and is intended for students in the horticulture program but members of the public and professional community are invited to enroll. This course is approved for IGETC AREA 5 (Biological Science) and for CSU GE AREA B-2 (Life Science).

### HORT 30

- **Horticultural Practices: Soils**
  - **Units:** 3

2 hours lecture, 3 hours laboratory. (60 total hours per quarter.)

Not Repeatable.

Fundamentals of soil science including examination of soil formation, physical and chemical properties of soil, relationships between soil, water and plants, and biological factors of soil. Examination of soil samples and interpretation of soil reports and surveys. Basics of plant fertility requirements and soil related topics such as composting, environmental issues, and soil in construction. This course required for Horticulture certificates and degrees, and is intended for students in the horticulture program but members of the public and professional community are invited to enroll.

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Winter Quarter 2014 Courses

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HORT 31 HORTICULTURAL PRACTICES: PLANT PROPAGATION

Formerly: HORT 52B
Advisory: Completion of, or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 52B.
2 hours lecture, 3 hours laboratory. (60 total hours per quarter.)
Not Repeatable.
Principles of plant propagation with an emphasis on techniques that are used in the nursery and greenhouse industries. Seeds, cuttings, grafting techniques, and the separation and division of specialized structures. This course is an elective for Horticulture certificates and degrees, and is intended for students in the horticulture program but members of the public and professional community are invited to enroll.

HORT 54B LANDSCAPE CONSTRUCTION: TECHNICAL PRACTICES

2.5 hours lecture, 1.5 hours laboratory. (48 total hours per quarter.)
Not Repeatable.
Technical aspects of landscape construction projects. Landscape surveying & grading techniques, surface & subsurface hydraulic systems, landscape drainage systems, erosion control & soil conservation, fences & gates, and building codes. Estimating landscape materials, construction costs, and preparation of project bids and contracts. This course is intended for students in the horticulture program but members of the public and professional community are invited to enroll.

HORT 54C LANDSCAPE CONSTRUCTION: IRRIGATION PRACTICES

2.5 hours lecture, 1.5 hours laboratory. (48 total hours per quarter.)
Not Repeatable.
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. This course is intended for students in the horticulture program but members of the public and professional community are invited to enroll.

HORT 55A GREEN INDUSTRY MANAGEMENT: BUSINESS PRACTICES

3 hours lecture. (36 total hours per quarter.)
Not Repeatable.
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. This course is an elective for Horticulture certificates and degrees, and is intended for students in the horticulture program but members of the public and professional community are invited to enroll.

HORT 66B LANDSCAPE DESIGN: THEORY

2 hours lecture, 3 hours laboratory. (60 total hours per quarter.)
Not Repeatable.
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. This course is intended for students in the horticulture program but members of the public and professional community are invited to enroll.

HORT 80B ENVIRONMENTAL HORTICULTURE WINTER SKILLS

4 hours lecture-laboratory. (48 total hours per quarter.)
Not Repeatable.
Course provides skills development and internship opportunities in Environmental Horticulture for the Winter season. This is an extension of classroom instruction covering topics such as woody tree & shrub pruning, drainage practices, winter plant protection, and rainwater harvesting. This course offers 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. This course is intended for students in the horticulture program but members of the public and professional community are invited to enroll.

HORT 90H LANDSCAPE LIGHTING

.75 hours lecture, .5 hours laboratory. (15 total hours per quarter.)
Not Repeatable.
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. This course is intended for students in the horticulture program but members of the public and professional community are invited to enroll.

HORT 90M PLANT NUTRITION & FERTILIZATION

.75 hours lecture, .5 hour laboratory. (15 total hours per quarter.)
Not Repeatable.
Introduction to plant nutrient requirements and methods for providing proper plant nutrition. Topics include review of basic nutrient requirements, forms of nutrients used by plants, nutrient deficiency identification, methods for delivering nutrients to plants, manufacture of fertilizers, fertilizer formulations, fertilizer delivery methods, and organic nutrient sources. This course is an elective for Horticulture certificates and degrees, and is intended for students in the horticulture program but members of the public and professional community are invited to enroll.

HORT 90P PRUNING: BASIC SKILLS

.75 hours lecture, .5 hours laboratory. (15 total hours per quarter.)
Not Repeatable.
Methods of pruning deciduous and evergreen plant materials. Emphasis on pruning common landscape plants, fruit trees, and roses. Selection of suitable pruning tools, techniques for pruning safely, and use and maintenance of tools and equipment. This course is intended for students in the horticulture program but members of the public and professional community are invited to enroll.
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www.foothill.edu 47  Foothill College • Winter Quarter 2014
### Winter Quarter 2014 Courses

#### JAPN 13A  
**Intermediate Conversation I**  
4 Units  
Prerequisite: JAPN 3.  
Advisory: May be taken concurrently with JAPN 4.  
4 hours lecture. (48 total hours per quarter.)  
Not Repeatable.  
Speaking and listening experience in culturally appropriate ways. Special emphasis on correct perception and speaking, and familiarity with oral idioms and grammar as they differ from more formal written and literary uses. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, formal and informal conversations. Understanding ambiguities, vagaries, and value inherent in the target language.

#### JAPN 14A  
**Advanced Conversation I**  
4 Units  
Prerequisite: JAPN 13B.  
4 hours lecture. (48 total hours per quarter.)  
Not Repeatable.  
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, debates, and drama. Stating and supporting opinions on various topics. 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.  
4 hours lecture. (48 total hours per quarter.)  
Not Repeatable.  
Continuation of JAPN 14A. Development of advanced level of oral/aural fluency in the language, and cultural skills required in linguistics 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.

#### FIRE SCIENCE

**Biological & Health Sciences**  
(650) 949-7249  
JFS 307  
**Fire Fighter I Academy**  
20 Units  
Advisory: The student will be required to pass a physical agility test. Further information to be provided to the student upon enrollment.  
480 hours total. (0 total hours per quarter.)  
Not Repeatable.  
This course is for anyone interested in instruction on basic fire fighting skills, laws and regulations affecting the fire service. It will provide the student with knowledge and skills to safely perform, under minimal supervision, essential and advanced fire ground tasks, basic rescue, basic fire prevention and fire investigation task and to use, inspect, and maintain fire fighting and rescue equipment. Curriculum is intended to provide the minimum training required by the State of California Fire Marshal in the field of Fire technology as it relates to firefighters. Students will receive a Fire Fighter 1 Academy certificate at the completion of this course.

#### KINESIOLOGY

Kinesiology & Athletics  
650-949-7742  
KINS 1  
**Introduction to Kinesiology**  
4 Units  
Formerly: PHED 1  
Advisory: Not open to students with credit in PHED 1.  
4 hours lecture. (48 total hours per quarter.)  
Not Repeatable.  
Introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions.

#### KINS 2  
**Sport in Society**  
4 Units  
Formerly: PHED 2  
Advisory: Not open to students with credit in H P 1B or PHED 2.  
4 hours lecture. (48 total hours per quarter.)  
Not Repeatable.  
This course looks at current and past sports related cultural and historical issues and practices to study the role of sport in society.

#### KINS 3  
**Theories & Techniques of Coaching Sports**  
4 Units  
Formerly: PHED 3  
Advisory: Not open to students with credit in H P 37 or PHED 3.  
4 hours lecture. (48 total hours per quarter.)  
Not Repeatable.  
Instruction in the theories and techniques of coaching sport and its variables which continue on the next page.

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[www.foothill.edu](http://www.foothill.edu)  

Foothill College • Winter Quarter 2014
## Winter Quarter 2014 Courses

### KINS 4
**Concepts of Physical Fitness & Wellness**

*Formerly: PHED 4*

Advisory: Not open to students with credit in PHED 4.

4 hours lecture. (48 total hours per quarter.)

Not Repeatable.

Study of physical fitness, training principles, nutrition and body composition, stress management, appropriate exercise and health practices with application to lifelong fitness and wellness habits.

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### KINS 8A
**Theory & Concepts of Exercise Physiology I**

*Formerly: PHED 8*

Advisory: Not open to students with credit in PHED 8.

4 hours lecture. (48 total hours per quarter.)

Not Repeatable.

Basic concepts and principles of exercise physiology and how the human body responds to the demands of physical activity. Emphasis on anatomy and physiology of human organ systems, neural and hormonal control, energy expenditure, fatigue, and principles of exercise training.

<table>
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### KINS 8B
**Theory & Concepts of Exercise Physiology II**

Prerequisite: KINS 8A.

4 hours lecture. (48 total hours per quarter.)

Not Repeatable.

Applied concepts and principles of exercise physiology and how the human body responds to the demands of physical activity. Emphasis on the impact of environmental influences, optimizing performance in sport, body composition and nutrition, age and sex considerations, and the implications of physical activity for health and fitness.

<table>
<thead>
<tr>
<th>CRN</th>
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<th>Instructor</th>
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### KINS 9
**Basic Nutrition for Sports & Fitness**

*Formerly: PHED 9*

Advisory: Not open to students with credit in PHED 9.

4 hours lecture. (48 total hours per quarter.)

Not Repeatable.

Practical applications of basic nutrition concepts and how food choices affect health and fitness. Includes computer utilization of personal dietary analysis and evaluation.

Standard food guides and guidelines to select foods that would maximize individual health are utilized in this course.

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### KINS 15
**First Aid & CPR/AED**

*Formerly: PHED 15*

Advisory: Not open to students with credit in PHED 15 or 66.

2 hours lecture-laboratory. (24 total hours per quarter.)

Not Repeatable.

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.

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### KINS 62A
**Clinical Experiences in Sports Medicine I**

*Formerly: PHED 62A*

Advisory: Not open to students with credit in H P 52A or PHED 62A.

9 hours laboratory. (108 total hours per quarter.)

Not Repeatable.

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.

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<th>CRN</th>
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### KINS 62B
**Clinical Experiences in Sports Medicine II**

*Formerly: PHED 62B*

Prerequisites: KINS 62A.

Advisory: Not open to students with credit in H P 52A or PHED 62B.

9 hours laboratory. (108 total hours per quarter.)

Not Repeatable.

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.

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### KINS 62C
**Clinical Experiences in Sports Medicine III**

*Formerly: PHED 62C*

Prerequisites: KINS 62B.

Advisory: Not open to students with credit in H P 52B or PHED 62C.

9 hours laboratory. (108 total hours per quarter.)

Not Repeatable.

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.

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Continued on next page.
KINS 62D  CLINICAL EXPERIENCES IN SPORTS MEDICINE IV  3 Units
Formerly: PHED 62D
Prerequisites: KINS 62C.
Advisory: Not open to students with credit in PHED 62D.
9 hours laboratory. (108 total hours per quarter.)
Not Repeatable.
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 on-campus physical therapy clinics may be utilized for the internship. Observation of orthopedic surgical procedures with the permission of the team physician is available.

KINS 62E  CLINICAL EXPERIENCES IN SPORTS MEDICINE V  3 Units
Formerly: PHED 62E
Prerequisites: KINS 62D.
Advisory: Not open to students with credit in PHED 62E.
9 hours laboratory. (108 total hours per quarter.)
Not Repeatable.
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.

KINS 65A  PNF: INTRODUCTION TO THE UPPER EXTREMITY  3 Units
Formerly: PHED 65A
Advisory: Not open to students with credit in H P 52F or PHED 65A.
2 hours lecture, 3 hours laboratory. (60 total hours per quarter.)
Not Repeatable.
Theory and hands on practice emphasizing the upper extremity: stretching, strengthening, stabilization and active/active range of motion including goniometric measurements. Students must have reliable and ongoing Internet access to complete Quizzes, Discussions and Assignments.

KINS 81  INTRODUCTION TO ADAPTIVE FITNESS TECHNIQUES  4 Units
Formerly: SPED 50
Advisory: Not Repeatable.
This course will give fitness professionals the knowledge and skills necessary to work with the disabled and/or older adult client in an adaptive fitness setting. Provides requisite information about the field of adaptive fitness. Understanding the impact disability has on psycho-social and physical aspects of life. Addresses empathy, fundamentals of fitness therapy, muscles and movement, contraindicated exercises, programming for gait training, balance, and fitness as well as transfer techniques.

KINS 82  PRINCIPLES OF THERAPEUTIC EXERCISE  4 Units
Formerly: SPED 54
Advisory: Not Repeatable.
This course will give fitness professionals the knowledge and skills necessary to work with the disabled and/or older adult client in an adaptive fitness setting. Provides requisite information about the field of adaptive fitness. Understanding the impact disability has on psycho-social and physical aspects of life. Addresses empathy, fundamentals of fitness therapy, muscles and movement, contraindicated exercises, programming for gait training, balance, and fitness as well as transfer techniques.

Not Repeatable.
Focuses on skills necessary for adaptive fitness professionals to implement a therapeutic exercise program for persons with a chronic medical conditions. Best practices for providing therapeutic exercise programs for clients after discharge from therapy. Covers a full range of chronic conditions seen in the adult population from orthopedic conditions to neurological. Addresses physical dysfunctions and appropriate corrective exercises as well as contraindicated movements.

LIBR 10  RESEARCH PAPER SEARCH STRATEGIES  1 Unit
Formerly: LIBR 71
Advisory: Familiarity with Macs or PCs; not open to students with credit in LIBR 71.
4 hours lecture. (48 total hours per quarter.)
## Winter Quarter 2014 Courses

### Learning in New Media Classrooms

**Fine Arts & Communication**  
(650) 949-7498  www.foothill.edu/kci/linc/

For complete course descriptions, access www.foothill.edu/kci/linc/

<table>
<thead>
<tr>
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<td>TECHNOLOGY IN THE K-12 CLASSROOM II</td>
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<tr>
<td>LINC 58</td>
<td>GLOBAL PROJECT-BASED LEARNING</td>
<td>2 Units</td>
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<td>LINC 58A</td>
<td>E-PORTFOLIOS</td>
<td>1 Unit</td>
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<td>LINC 70A</td>
<td>WEB PAGE DESIGN I</td>
<td>.5 Units</td>
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<td>1 Unit</td>
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### Course Descriptions

**LINC 50A TECHNOLOGY IN THE K-12 CLASSROOM II**

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 255S.  
.5 hour lecture. (6 total hours per quarter.)

This is an introductory course about educational hardware technology in the classroom. Designed for educators, this hands-on course demonstrates integration of hardware technologies such as document cameras, interactive white boards, student response systems, iPads, mobile phones, etc. for teaching and learning with any standards based curriculum. Emphasis is given to creating student-centered activities using appropriate educational hardware technologies.

**LINC 58 GLOBAL PROJECT-BASED LEARNING**

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using Web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 224.  
Two hours lecture. (24 total hours per quarter.)

This course is designed for educators who want to develop understanding and competencies in using the 21st century skills strategy of global project-based learning to create powerful, culturally diverse learning environments. Teachers and students connect globally via Internet telecommunications software to work collaboratively on curriculum-based, real-world projects. Participants will create a project that engages students in learning curriculum content.

**LINC 58A E-PORTFOLIOS**

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 223.  
1 hour lecture. (12 total hours per quarter.)

This course is designed for educators, professionals, or students who want to develop understanding and competencies in using the 21st century skills strategy of global project-based learning to create powerful, culturally diverse learning environments. Teachers and students connect globally via Internet telecommunications software to work collaboratively on curriculum-based, real-world projects. Participants will create a project that engages students in learning curriculum content.

**LINC 70A WEB PAGE DESIGN I**

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 200S.  
.5 hour lecture. (6 total hours per quarter.)

This short course is an introduction for how to design and create Web pages for educational and personal use. Students will learn to design and create Web pages using various tools and techniques.

**LINC 72C ADOBE INDESIGN I**

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 234S.  
.5 hour lecture. (6 total hours per quarter.)

This short course is designed for educators who want to develop understanding and competencies in the use of Adobe InDesign for desktop publishing. Students will learn to design and create page layouts, import, format, and edit text, import and arrange photos, create collages that tell stories, and incorporate professional graphic design elements.

**LINC 73 ADOBE PHOTOSHOP OVERVIEW**

Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 230.  
1 hour lecture. (12 total hours per quarter.)

This short course is designed for educators who want to develop understanding and competencies in the use of Adobe Photoshop for image editing and manipulation. Students will learn to use basic tools and techniques for creating and editing digital images.

Unless otherwise noted, Winter Quarter runs Jan. 6–March 28, 2014. All courses are Title 5 Degree applicable credit courses unless otherwise noted. All fee payments are due at time of registration. Instructors are not obligated to hold a seat for the student who is enrolled but does not attend the first class meeting. The course listings in this PDF were accurate as of Nov. 4, 2013. Be aware that course listing and footnote information may have changed. For the most accurate, current course listings, always access the online class schedule.
searching, and downloading; not open to students with credit in LINC 230S. .5 hours lecture. (6 total hours per quarter.)
Not Repeatable.
This short course is designed for educators and includes hands-on experiences that integrate digital imaging with teaching and learning. Emphasis is given to creating student-centered projects or activities using Photoshop. Learn to enhance image color and contrast, touch-up photos, create collages that tell stories, design layouts, paint with the paint tools, manipulate and enhance text to create unique typographic effects, while creating student-centered projects.

31672 LINC-073A-01 LEC 09 AM-03 PM S DAVIS 4002

LINC 73H ADOBE ILLUSTRATOR OVERVIEW 1 Unit
Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching, and downloading; students may enroll in LINC 73H or 73J, but not both, for credit; not open to students with credit in LINC 233.
1 hour lecture. (12 total hours per quarter.)
Not Repeatable.
Adobe Illustrator creates drawings, illustrations, and images for print or Web. Use vector graphics; draw objects, stroke outlines and pattern fills; work with brushes, gradients, color blends; design type; and develop graphs.

31680 LINC-099B-01W LEC TBA TBA ULLAH ONLINE
LINC-099B-01W: Illustrator Overview. Meets online Feb. 4 - March 8, 2013.

LINC 90B OPEN EDUCATION RESOURCES 1 Unit
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems and basic skills and knowledge of Internet technologies, such as using Web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 215.
1 hour lecture. (12 total hours per quarter.)
Not Repeatable.
This course is an overview of Open Educational Resources (OER) and the use of free public domain materials for teaching and learning. It aims to build participant's knowledge and skills to find, adapt, re-purpose and create accessible OER for use in education and training environments. Course topics include OER terminology, OER quality, copyright and fair use issues, sources and repositories of public domain materials in various disciplines, technical issues regarding accessibility, and uses of Creative Commons. Participants will explore and analyze: OER tools and standards available to develop, organize and disseminate content; public domain learning materials; searching techniques for identifying public domain learning materials; professional collaboration strategies; and criteria for assessing the suitability of public domain learning materials for use in various disciplines.
 Participants will either create a lesson, activity, or training module that incorporates OER or create an OER for an identified purpose.

LINC 97 IPADS IN EDUCATION .5 Units
Advisory: Appropriate skills and abilities with mobile computer systems and internet technologies.
.5 hour lecture (6 total hours per quarter.)
Not Repeatable.
Tablet computer technology is having greater influence in education and impacting student learning with mobile, rich media applications. Teachers, educators, and students enrolled in this course will explore using the Apple iPad in every level of education; analyze changes mobile computing brings to the teaching and learning environment; evaluate applications relevant for academic disciplines and that reflect the Common Core State Standards. This hands-on class provides practice in using iPads in a classroom setting and for developing instructional resources and learning aids.

31673 LINC-097-01 LEC 04 PM-07 PM MW BRUMBAUGH 4006
MATH 1B: CALCULUS  
5 Units  
Prerequisite: MATH 1A.  
Advisory: Eligibility for ENGL 1A or ESLL 26.  
5 hours lecture. (60 total hours per quarter.)  
Not Repeatable.  
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.

MATH 1D: CALCULUS  
5 Units  
Prerequisite: MATH 1C.  
Advisory: Eligibility for ENGL 1A or ESLL 26.  
5 hours lecture. (60 total hours per quarter.)  
Not Repeatable.  
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, characterization, vector fields, path-independence, divergence and curl.

MATH 2A: DIFFERENTIAL EQUATIONS  
5 Units  
Prerequisite: MATH 1C.  
Advisory: Eligibility for ENGL 1A or ESLL 26; not open to students with credit in MATH 12A.  
5 hours lecture. (60 total hours per quarter.)  
Not Repeatable.  
Differential equations and selected topics of mathematical analysis.

Continued on next page.
### Winter Quarter 2014 Courses

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<tr>
<th>Course Number CRN</th>
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<td>Fothill College</td>
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- **MATH-002A-01**: TI-83/83-plus or TI-84/84-plus Graphing Calculator required. Additional costs for online materials or content in place of or in addition to a textbook may be required.

#### MATH 10 ELEMENTARY STATISTICS 5 Units

- **Prerequisite**: Satisfactory score on the mathematics placement test or MATH 105 or 108.
- **Advisory**: Eligibility for ENGL 1A or ESLL 26.

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- **MATH 10**: An introduction to modern methods of descriptive statistics, including collection and presentation of data; measures of central tendency and dispersion; probability; sampling distributions; correlation; regression; analysis of variance; use of microcomputers for statistical calculations. Illustrations taken from the fields of business, economics, medicine, engineering, education, psychology, sociology and from culturally diverse situations.

#### Additional Costs

- Use online content in place of, or in addition to a textbook. Please contact the instructor for details.
- Additional costs for online materials or content in place of or in addition to a textbook may be required.

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**MATH 44** MATH FOR THE LIBERAL ARTS 5 Units
Prerequisite: Satisfactory score on the mathematics placement exam or MATH 105 or 108.
Advisory: Eligibility for ENGL 1A or ESL 26.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
A survey of mathematical models and other tools to introduce the nonspecialist to the methods of quantitative reasoning. Problem solving by Polya's method with analytic, numeric, graphical, and verbal investigation. Selecting, constructing, and using mathematical models. Interpreting quantitative results in qualitative context. Emphasis on deductive reasoning and formal logic; algebraic, exponential, logarithmic, and trigonometric models; probability and the normal distribution; data analysis; and selected topics from discrete math, finite math, and statistics.

**MATH 48A** PRECALCULUS I 5 Units
Prerequisite: Satisfactory score on the mathematics placement test or MATH 105 or 108.
Advisory: Eligibility for ENGL 1A or ESL 26; UC credit for MATH 48A, B & C is limited to a maximum of 7.5 units for the combination or any portion of the series completed.
5 hours lecture. (60 total hours per quarter.)
Introduction to families of functions including quadratics, polynomials, power and root functions, transformations of these functions, and their use in solving applications problems.

**MATH 48B** PRECALCULUS II 5 Units
Prerequisite: MATH 48A.
Advisory: Eligibility for ENGL 1A or ESL 26; UC credit for MATH 48A, B & C is limited to a maximum of 7.5 units for the combination or any portion of the series completed.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
This course is a continuation of topics from MATH 48A. Topics include the six trigonometric functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, oblique triangles, vectors, parametric equations, and modeling data with various functions.

**MATH 48C** PRECALCULUS III 5 Units
Prerequisite: MATH 48B.
Advisory: Eligibility for ENGL 1A or ESL 26; UC credit for MATH 48A, B & C is limited to a maximum of 7.5 units for the combination or any portion of the series completed.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
This course is a continuation of topics from MATH 48B. Topics include the six trigonometric functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, oblique triangles, vectors, parametric equations, and modeling data with various functions.

**MATH 57** INTEGRATED STATISTICS II 5 Units
Formerly: MATH 17
Prerequisite: MATH 217.
Advisory: Eligibility for ENGL 1A or ESL 26; not open to students with credit in

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**Winter Quarter 2014 Courses**

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<tr>
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**MATH 108 ACCELERATED ALGEBRA 10 Units**

Prerequisites: Satisfactory score on the mathematics placement test, or successful completion of MATH 230, 230J or 234.

Advisory: Not open to students with credit in MATH 105.

10 hours lecture. (120 total hours per quarter.)

Not Repeatable.

This course will cover content from two algebra courses, beginning and intermediate algebra. The content consists of linear equations, linear inequalities, linear systems, polynomials with focus on quadratics, rationals, radicals, absolute values, exponential and logarithmic functions. Relationships between analytical, graphical, numerical, and verbal approaches will be emphasized.

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**MATH 220 ELEMENTARY ALGEBRA 5 Units**

Prerequisites: Satisfactory score on the mathematics placement test; MATH 230, 230J or 234.

Advisory: Not open to students with credit in MATH 101 or 224.

5 hours lecture. (60 total hours per quarter.)

Not Repeatable.

Includes linear equations inequalities in one variable, graphs of linear and quadratic functions, solving linear systems, integer exponents, operations on polynomials, factoring, and proportional reasoning.

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MATH 230  PREPARING FOR ALGEBRA: LINEAR EQUATIONS, PROPORTIONS & GEOMETRY 6 Units
Prerequisite: MATH 235.
Advisory: Pass/No Pass; not open to students with credit in MATH 200, 230J, or 234.
4 hours lecture, 6 hours laboratory. (120 total hours per quarter.)
Not Repeatable.
Review of order of operations with rational numbers. Introduction to algebraic concepts including solving first-degree equations and evaluating and simplifying expressions. Development and applications of ratios, proportions, percents, and geometric concepts.

31133  MATH-230.-01  LEC 10-11:50 AM  MW  MUNOZ  4223
LAB 10-11:50 AM  TTHF  MUNOZ  4223
MATH-230.-01: Additional costs for online materials or content in place of or in addition to a textbook may be required.

30767  MDIA-011.-01W  LEC TBA TBA  HARTWELL ONLINE
LAB TBA TBA  HARTWELL ONLINE
MDIA-011.-01W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin. Cross-listed with FA 1.

MATH 235  PREPARING FOR ALGEBRA: REAL NUMBERS 6 Units
Not Repeatable.
Addition, subtraction, multiplication and division of whole numbers, fractions, decimals and signed numbers. Order of operations with real numbers and applications of such operations.

30464  MATH-235.-01  LEC 10-11:50 AM  MW  MUNOZ  4223
LAB 10-11:50 AM  TTHF  MUNOZ  4223
MATH-235.-01: MATH-235.-01 has 4 instructors in the program. During the quarter, students enrolled in MATH-235.-01 will receive instruction from any of these instructors. Students who enrolled in MATH-235.-01 will attend class everyday, Monday - Friday from 10-11:50AM. Additional costs for online materials or content in place of or in addition to a textbook may be required.

31134  MATH-235.-02  LEC 10-11:50 AM  MW  PERINO  4202
LAB 10-11:50 AM  TTHF  PERINO  4202
MATH-235.-02: MATH-235.-01 has 4 instructors in the program. During the quarter, students enrolled in MATH-235.-01 will receive instruction from any of these instructors. Students who enrolled in MATH-235.-01 will attend class everyday, Monday - Friday from 10-11:50AM. Additional costs for online materials or content in place of or in addition to a textbook may be required.

30505  MUS -001.-01Y  LEC 10-11:50 AM  MW  STAFF  4501
LEC 10-10:50 AM  F  STAFF  4501
MATH-220.-06: Additional costs for online materials or content in place of or in addition to a textbook may be required.

30767  MDIA-011.-01W  LEC TBA TBA  HARTWELL ONLINE
LAB TBA TBA  HARTWELL ONLINE
MDIA-011.-01W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin. Cross-listed with FA 1.

MIDIA 11  INTRODUCTION TO POPULAR CULTURE 4 Units
Advisory: Not open to students with credit in FA 1.
4 hours lecture, 1 hour laboratory. (60 total hours per quarter.)
Not Repeatable.
Overview of history and critical analysis of popular culture as a window for understanding American society. Theories and methods of analyzing artifacts of popular culture. Overarching themes: 1) history/social theories of popular culture; 2) popular culture as a product of American multiculturalism; 3) the relationship between a commodity culture and intellect/arty; 4) philosophical/ethical issues surrounding popular culture.

30767  MDIA-011.-01Y  LEC 10-11:50 AM  MW  HARTWELL  4002
LAB TBA TBA  HARTWELL ONLINE
MDIA-011.-01Y: Hybrid class. 1 weekly TBA hour via online instruction. Cross-listed with FA 1.

30769  MDIA-011.-03W  LEC TBA TBA  HARTWELL ONLINE
MDIA-011.-03W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin. Cross-listed with FA 1.

30770  MDIA-011.-04W  LEC TBA TBA  THORNTON ONLINE
MDIA-011.-04W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin. Cross-listed with FA 1.

MIDIA 12  POPULAR CULTURE & UNITED STATES HISTORY 4 Units
Advisory: Not open to students with credit in FA 12.
4 hours lecture, 1 hour laboratory. (60 total hours per quarter.)
Not Repeatable.
Interdisciplinary overview of popular culture as a window for understanding American history and society. Theories and methods of analyzing the artifacts of popular culture. Overarching themes: 1) interaction between American historical events and trends, and popular culture; 2) the interpretation of American history via popular culture media.

30711  MDIA-012.-01W  LEC TBA TBA  THORNTON ONLINE
MDIA-012.-01W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin.

Music

MUS 1  INTRODUCTION TO MUSIC 4 Units
4 hours lecture, 1 hour laboratory. (60 total hours per quarter.)
Not Repeatable.
A study of Western music and its place in civilization. Selected listening and readings from the masterpieces of music of Europe and the Western Hemisphere with an emphasis on methods of comprehension, listening techniques, the elements of music, primary musical forms, and a wide range of concert repertoire. Includes a study of how social, political, philosophical, and other artistic developments outside of music influenced compositional thinking and how these were integrated into the different periods of Western musical history. A variety of media consisting of slides, videos, recordings, and lecture will be used. Live performance used when possible.

30356  MUS -001.-01Y  LEC 10-11:50 AM  MW  DAVIES  1401
LAB TBA TBA  DAVIES ONLINE
MUS -001.-01Y: Hybrid class. 1 weekly TBA hour via online instruction. Cross-listed with FA 1.

Continued on next page
Winter Quarter 2014 Courses

Course Number | Title | Units | Instructor | Location
--- | --- | --- | --- | ---
MUS 3A | BEGINNING MUSIC THEORY, LITERATURE & COMPOSITION | 5 Units | CRATTY | ONLINE
MUS 2B | GREAT COMPOSERS & MUSIC MASTERPIECES OF WESTERN CIVILIZATION | 4 Units | BARKLEY | ONLINE
MUS 3B | INTERMEDIATE MUSIC THEORY, LITERATURE & COMPOSITION | 5 Units | DAVIES | ONLINE
MUS 7D | CONTEMPORARY MUSIC STYLES: THE BEATLES IN THE CULTURE OF POPULAR MUSIC | 4 Units | BARKLEY | ONLINE
MUS 364 | MUSICAL THEORETICAL ORIENTATION | 4 Units | BARKLEY | ONLINE

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**Winter Quarter 2014 Courses**

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**MUS 8**

Advisory: Not open to students with credit in MUS 8H.

A comparative and integrative study of the multicultural musical styles of the United States, this class explores the musics of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans from their historical roots to the present. It includes a wide variety of musical styles such as Folk, Spirituals, Gospel, Soul, Blues, Jazz, Cajun, Zydeco, Salsa, Tejano, Hip-Hop and Rap. Students will look at these musical traditions from a technical and a cultural perspective as they develop listening and descriptive skills.

**MUS 9A**

Advisory: Not open to students with credit in MUS 85A.

A comparative and integrative study of the multicultural musical styles of the United States, this class explores the musics of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans from their historical roots to the present. It includes a wide variety of musical styles such as Folk, Spirituals, Gospel, Soul, Blues, Jazz, Cajun, Zydeco, Salsa, Tejano, Hip-Hop and Rap. Students will look at these musical traditions from a technical and a cultural perspective as they develop listening and descriptive skills.

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WINTER QUARTER 2014 COURSES

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MUS 11A JAZZ & SWING
4 Units
Formerly: MUS 64A
Advisory: Not open to students with credit in MUS 64A.
4 hours lecture, 1 hour laboratory. (60 total hours per quarter.)
Not Repeatable.
History and analysis of jazz styles and trends from the development of Ragtime to the present. An introduction to the instruments, performers, composers, compositions and recordings that defined jazz before the introduction of rock as the primary commercial music style in the US. Presentation of jazz and swing recordings, videos and print resources. Major artists include Louis Armstrong, Duke Ellington, Benny Goodman, Glenn Miller, Lionel Hampton, Count Basie, Charlie Parker, Dizzy Gillespie, Miles Davis, Sonny Rollins, Charles Mingus and John Coltrane. Style periods include Early ('Dixieland'), Big Band, Jump, Swing, Bebop, Hard Bop, Cool, Model, and Avant-Garde Jazz.

MUS 11B FUNK, FUSION & HIP-HOP
4 Units
Formerly: MUS 64B
Advisory: Not open to students with credit in MUS 64B.
4 hours lecture, 1 hour laboratory. (60 total hours per quarter.)
Not Repeatable.
That defined/define funk, Fusion and Hip Hop styles from 1969 to the present. An introduction to the instruments, performers, composers, compositions and recordings that defined funk and fusion and 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 12A BEGINNING CLASS PIANO
2 Units
Advisory: Concurrent enrollment in MUS 10; this course is included in the Piano Class Applied Performance family of activity courses.
2 hours lecture, 1 hour laboratory. (36 total hours per quarter.)
Not Repeatable.
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 12B INTERMEDIATE CLASS PIANO
2 Units
Advisory: MUS 12A or equivalent skills; this course is included in the Piano Class Applied Performance family of activity courses.
2 hours lecture, 1 hour laboratory. (36 total hours per quarter.)
Not Repeatable.
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 12C ADVANCED CLASS PIANO
2 Units
Advisory: MUS 12B or equivalent skills; this course is included in the Piano Class Applied Performance family of activity courses.
2 hours lecture, 1 hour laboratory. (36 total hours per quarter.)
Not Repeatable.
Continuation of MUS 12B with greater emphasis on building a repertoire, varied styles of performance, and ensemble playing.

MUS 14A BEGINNING CLASSICAL GUITAR
2 Units
Advisory: This course is included in the Guitar Class Applied Performance family of activity courses.
2 hours lecture, 1 hour laboratory. (36 total hours per quarter.)
Not Repeatable.
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 14B INTERMEDIATE CLASSICAL GUITAR
2 Units
Advisory: MUS 14A; This course is included in the Guitar Class Applied Performance family of activity courses.
2 hours lecture, 1 hour laboratory. (36 total hours per quarter.)
Not Repeatable.
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 14C ADVANCED CLASSICAL GUITAR
2 Units
Advisory: MUS 14B; this course is included in the Guitar Class Applied Performance family of activity courses.
2 hours lecture, 1 hour laboratory. (36 total hours per quarter.)
Not Repeatable.
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 15A BEGINNING ACOUSTIC GUITAR TECHNIQUES
2 Units
Advisory: This course is included in the Guitar Class Applied Performance family of activity courses.
2 hours lecture, 1 hour laboratory. (36 total hours per quarter.)
Not Repeatable.
A performance based course in beginning guitar (nylon, steel, or electric guitar) with a

Continued on next page.
### Winter Quarter 2014 Courses

- **MUS 15B** INTERMEDIATE ACOUSTIC GUITAR TECHNIQUES  
  Prerequisite: MUS 15A or equivalent.  
  Advisory: This course is included in the Guitar Class Applied Performance family of activity courses.  
  2 hours lecture, 1 hour laboratory. (36 total hours per quarter.)  
  Not Repeatable.  
  Development of traditional finger-picking style playing and picking techniques. Solo and ensemble performance on an intermediate level. Emphasis on reading traditional notation, chord symbols and tablature.

- **MUS 15C** ADVANCED ACOUSTIC GUITAR TECHNIQUES  
  Prerequisite: MUS 15B or equivalent.  
  Advisory: This course is included in the Guitar Class Applied Performance family of activity courses.  
  2 hours lecture, 1 hour laboratory. (36 total hours per quarter.)  
  Not Repeatable.  
  Instruction in the playing of popular and folk guitar with an emphasis on finger-picking, barre chords, and altered tunings. Sight reading in tablature, chord symbols, and standard notation. Instrumental blues and blues scales will be covered.

- **MUS 50A** MUSIC BUSINESS  
  4 hours lecture, 1 hour laboratory. (60 total hours per quarter.)  
  Not Repeatable.  
  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 hours lecture, 1 hour laboratory. (60 total hours per quarter.)  
  Not Repeatable.  
  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 51** BASICS OF MUSIC PUBLISHING  
  Formerly: MUS 16, MUS 59  
  Advisory: Not open to students with credit in MUS 18 or 59.  
  2 hours lecture, 1 hour lecture-laboratory, 3 hours laboratory. (72 total hours per quarter.)  
  Not Repeatable.  
  This course prepares the student to navigate the music publishing business by eliminating the legal aspects of music in everyday language. Class includes writing original songs for review. Active listening and constructive critiquing of original student compositions.

- **MUS 58A** SONGWRITER’S WORKSHOP  
  2 hours lecture, 1 hour lecture-laboratory, 3 hours laboratory. (72 total hours per quarter.)  
  Not Repeatable.  
  Workshop course for beginning songwriters that focuses on basic songwriting styles and techniques. Over the course of the class different songwriting basic methods are presented. Students are assigned weekly songwriting projects. Class is appropriate for basic levels of songwriting competency.

- **MUS 58B** MODERN SONG COMPOSITION  
  2 hours lecture, 1 hour lecture-laboratory, 3 hours laboratory. (72 total hours per quarter.)  
  Not Repeatable.  
  Workshop course for intermediate songwriters that focuses on contemporary and songwriting methodology. Over the course of the class different songwriting components and structures are presented. Students are assigned weekly songwriting projects and are expected to submit finished songs with all the necessary components. Course includes analytical listening and discussion of various songwriting styles. Class is appropriate for medium levels of songwriting competency.

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### Winter Quarter 2014 Courses

#### MUS 58C ADVANCED SONG STRUCTURE 3.5 Units
2 hours lecture, 1 hour lecture-laboratory, 3 hours laboratory. (72 total hours per quarter.)
**Not Repeatable.**
Workshop course for advanced songwriters that focuses on higher-level topics such as Self Criticism, Rewriting and Co-Writing. Course includes demonstrations of the practical use of technique and an understanding of the works of the most accomplished professional songwriters. Class is appropriate for Advanced levels of songwriting competency.

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**MUS 60A PRODUCING IN THE HOME STUDIO I 4 Units**
4 hours lecture, 1 hour laboratory. (60 total hours per quarter.)
**Not Repeatable.**
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.

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**MUS 60B PRODUCING IN THE HOME STUDIO II 4 Units**
4 hours lecture, 2 hours laboratory. (72 total hours per quarter.)
**Not Repeatable.**
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 buses. Mixing and mastering in various digital formats.

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**MUS 66A INTRODUCTION TO DIGITAL AUDIO: PRO TOOLS 4 Units**
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. (84 total hours per quarter.)
**Not Repeatable.**
Introduction to creating music with computers, keyboards, audio samples and 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.

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**MUS 66B REASON & PRO TOOLS 4 Units**
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. (84 total hours per quarter.)
**Not Repeatable.**
Creating and editing digital audio with Pro Tools and Reason. Introduction to Reason's virtual instruments including Dr. Rex, Subtractor, Malstrom, Thor, Redrum and NN-XT. Songwriting, musical composition, and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music. Introduction to synthesis and digital sampling techniques. Integrate Reason and Pro Tools using ReWire, Pro Tools MIDI Editor and the Pro Tools Mixer.

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**MUS 66C PRO TOOLS & VIRTUAL INSTRUMENTS 4 Units**
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. (84 total hours per quarter.)
**Not Repeatable.**
Creating and editing digital audio with Pro Tools and virtual instruments. Avid Pro Tools plug-ins including Boom, Vacuum, Xpand, Structure and Mini Grand. Third party software includes Native Instruments Kontakt, Reason and Ableton Live. History of sampling and loop based compositional techniques. Create, edit, and arrange drum beats. Configure filters, envelopes, modulation, and arpeggiators. Modify all synthesizer parameters to create unique sounds. Utilize Pro Tools MIDI Editor and Score Editor. Analyze variety of musical styles utilizing MIDI and Virtual Instruments for composition and production. Examples from recording artists including The Beatles, Dr. Dre, Michael Jackson, Peter Gabriel, Radiohead, Herbie Hancock, Rachmaninov and Miles Davis. Organize sound libraries for music production, TV, film, websites and video games.

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**MUS 66E PRODUCING MUSIC WITH ABELETON LIVE 4.5 Units**
2 hours lecture, 2 hours lecture-laboratory. (72 total hours per quarter.)
**Not Repeatable.**
Producing music with Ableton Live software. Compose, record, remix, improvise, produce and edit music. Study Ableton Live interface, edit audio, use plug-ins, MIDI sequencing and realtime mixing techniques. Compile live sets from audio clips, loops, samples in realtime and create songs in a variety of styles including R&B, Hip hop, Trance, Drum and Bass, and House Music. Integrate Ableton Live with Pro Tools for final mixing and delivery to dance clubs, radio stations and iTunes.

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**MUS 80A RECORDING STUDIO BASICS 4 Units**
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. (84 total hours per quarter.)
**Not Repeatable.**
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 Avid Pro Tools HD systems. Microphone placement, physics of sound as it relates to recording, sound reinforcement and studio setup techniques.

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MUS 81A RECORDING STUDIO PRODUCTION TECHNIQUES
Advisory: Not open to students with credit in MUS 81.
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. (84 total hours per quarter.)
Not Repeatable.
Introduction to multitrack recording and production using AVID Pro Tools HD systems. Contemporary recording studio production techniques including microphone selection, placement, analog and digital signal paths, speaker monitors and studio acoustics. Techniques for recording drums, bass, piano, guitar, woodwinds, strings and vocals. Practical hands-on experience with professional recording artists and student collaborations. Access to Foothill College Recording Studios for personal projects and portfolio development.

MUS 81B SOUND DESIGN FOR FILM & VIDEO
Advisory: Not open to students with credit in VART 81B.
3 hours lecture, 1.5 hours laboratory. (54 total hours per quarter.)
Not Repeatable.
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/Avid Media Composer and Pro Tools.

MUS 81D PRO TOOLS & Plug-Ins I
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. (84 total hours per quarter.)
Not Repeatable.
Creative applications of Pro Tools hardware and software Plug-Ins used in contemporary music production and sound design. Signal processing, equalization, compression, Beat Detective, distortion, reverb, delay, pitch correction, modulation, advanced plug-in automation techniques. Compare plug-ins and processors from different companies including Sonnox, McDSP, Massey, Avid, Antares and Waves. Waves Certification Program textbook provides high-quality, standardized means of mastering Waves plug-ins. Successful completion achieves Waves Certification Level A.

MUS 82A PRO TOOLS 101: INTRODUCTION TO PRO TOOLS
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. (84 total hours per quarter.)
Not Repeatable.
Introduction to Pro Tools with Avid Certification training material. Basic audio editing tools and techniques, plug-ins and mixing in the Pro Tools environment. Build sessions that include multitrack recordings of live instruments, MIDI sequences, virtual instruments, audio loops and beats. Practical experience with examples from major label recording artists and feature films. Understanding menus, windows, preferences and system configurations for Pro Tools in professional studios and professional facilities. Intro to automation, dialog editing and audio post production for film and video. Required for Avid Pro Tools Certification.

MUS 82C PRO TOOLS 201: PRO TOOLS PRODUCTION II
2 hours lecture, 2 hours lecture-laboratory, 3 hours laboratory. (84 total hours per quarter.)
Not Repeatable.

MUS 82D NANO FABRICATION TOOLS & PROCESS
Advisory: NANO 52 & 53 or equivalent; students should have a basic knowledge of materials science, physics, and inorganic/organic chemistry.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
Introduction to common fabrication techniques used in the synthesis, preparation, and processing of nanostructured materials. Topics include thin film coating and deposition, plasma deposition and surface modification, powder metallurgy, and fabrication of silicon nano and micro structures. Emphasis on safety, process development, monitoring and optimization, and quality control. Students will fabricate and characterize small prototype materials as part of the integrated nanomaterials engineering program.

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### Winter Quarter 2014 Courses

#### Non-Credit: Basic Skills

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#### Non-Credit: English as a Second Language

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#### Non-Credit: Language Arts

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### Non-Credit: Parenting Education

**Course Number** | **Title** | **Units**  
--- | --- | ---  
NCP 400 | STRONG START FOR CHILDREN | 0

8 hours total. (0 total hours per quarter.)

Unlimited Repeatability.

Introduces families and caregivers to stages of child development, best practices in parenting and linking students to resources. Emphasis placed on child development, effective communication and discipline, and school readiness. This is the first course in a sequence of three (with NCP 401 and NCP 402) which leads to a Certificate of Completion in Parenting Skills and helps prepare students for credit classes in Child Development. May be offered bilingually.

- **NCP 400-01**: Offered at Landels School. Open entry/exit. No fee. Registering at class location is an option.
- **NCP 400-02**: Offered at Headstart/San Jose. Open entry/exit. No fee. Registering at class location is an option.
- **NCP 400-03**: Offered at TBA. Thursdays, 6-7:50 pm, 1/23, 1/30, 2/6/12. Open entry/exit. No fee. Registering at class location is an option.

### Non-Credit: Workforce Preparation

**Course Number** | **Title** | **Units**  
--- | --- | ---  
NCWP 400 | BLUEPRINT FOR WORKPLACE SUCCESS | 0

36 hours total. (0 total hours per quarter.)

Unlimited Repeatability.

Provides students with the necessary tools and techniques in order to identify and/or enhance the job-related abilities and qualities they possess, find a job, successfully apply and interview and keep the job by using effective workplace behaviors and communication skills. Completion of this course in addition to NCWP 401, 402 and 403 leads to a Job Readiness Certificate of Completion.

- **NCWP 400-01**: Offered at Catholic Charities, 2926 Zanker Rd, San Jose. Three-week class: 1/11-1/29. Completion of NCWP 400, 401, 402 & 403 leads to Job Readiness Certificate of Completion.

### Winter Quarter 2014 Courses

**Course Number** | **Title** | **Units**  
--- | --- | ---  
NCP 401 | BLUEPRINT FOR CUSTOMER SERVICE | 0

18 hours total. (0 total hours per quarter.)

Provides students necessary tools in order to develop good customer service skills for the workplace focusing on getting to know customers, listening and problem solving. Completion of this course in addition to NCWP 400, 402 and 403 leads to a Job Readiness Certificate of Completion.

- **NCWP 401-01**: Offered at Catholic Charities, 2926 Zanker Rd, San Jose. Three-week class: 1/11-1/29. Completion of NCWP 400, 401, 402 & 403 leads to Job Readiness Certificate of Completion.

### Winter Quarter 2014 Courses

**Course Number** | **Title** | **Units**  
--- | --- | ---  
NCP 402 | 30 WAYS TO SHINE AS A NEW EMPLOYEE | 0

6 hours total. (0 total hours per quarter.)

Unlimited Repeatability.

Provides students with necessary tools in order to succeed in the workplace focusing on how to participate in a new work environment, to work with customers and new colleagues, how to dress and behave, and how to make a difference as a new employee. Completion of this course in addition to NCWP 400, 401 and 403 leads to a Job Readiness Certificate of Completion.


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<td>NCWP 403</td>
<td>JOB CLUB</td>
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</table>

7 hours total. (0 total hours per quarter.) Unlimited Repeatability.

Provides students with the necessary tools and skills in order to succeed in the workplace. These skills include the process of looking for appropriate work, preparing for an interview, contacting employers, writing a resume and cover letter for a specific job, and participating in a job interview. Completion of this course in addition to NCWP 400, 401 and 402 leads to a Job Readiness Certificate of Completion.

Performing Arts

Fine Arts & Communication (650) 949-7479 www.foothill.edu/fa/

All Performing Arts classes by prior audition only. For information (650) 949-7479.

PA 311A Performance Practices in Theatre I 4 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass; enrollment is limited to six times within the P A group. 12 hours laboratory. (144 total hours per quarter.) Not Repeatable.

Study, rehearsal, and performance of assigned theatre performance repertoire. Through guided instruction, students learn the core theory and techniques of modern acting. Designed as a performance course for actors wishing to explore theatre repertoire more fully with other performance artists and under the tutelage of a theatre professional.

PA 311B Performance Practices in Theatre II 4 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass; enrollment is limited to six times within the P A group. 12 hours laboratory. (144 total hours per quarter.) Not Repeatable.

Study, rehearsal, and performance of assigned theatre performance repertoire. Building on the fundamentals learned in P A 311A, this course will concentrate on the use of voice in a performance setting. Designed as a performance course for actors wishing to explore theatre repertoire more fully with other performance artists and under the tutelage of a theatre professional.

PA 311C Performance Practices in Theatre III 4 Units

Prerequisite: Enrollment subject to audition.

Advisory: Pass/No Pass; enrollment is limited to six times within the P A group. 12 hours laboratory. (144 total hours per quarter.) Not Repeatable.

Study, rehearsal, and performance of assigned theatre performance repertoire. Building on the fundamentals learned in PA 311B, this course will concentrate on the use of movement in a performance setting. Designed as a performance course for actors wishing to explore theatre repertoire more fully with other performance artists and under the tutelage of a theatre professional.
## Winter Quarter 2014 Courses

### Course Number Title Units

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<th>CRN</th>
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| 31356 | P A -311F-02 | LAB | TBA | TBA | TBA | THORNTON | PYT | Admissio
| 31366 | P A -311F-03 | LAB | TBA | TBA | TBA | THORNTON | SJCMT | Admissio

### Course Number Title Units

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<td>P A 315A</td>
<td>PERFORMANCE PRACTICES IN TECHNICAL THEATRE I-BASICS OF TECHNICAL THEATRE</td>
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<tr>
<td>Study, rehearsal, and performance of basic technical theatre. This course is designed for theatre students wishing to learn more about backstage practices. Cumulates in a full-scale production performed for a public audience.</td>
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| 31357 | P A -315A-02 | LAB | TBA | TBA | TBA | THORNTON | PYT | Admissio
| 31369 | P A -315A-03 | LAB | TBA | TBA | TBA | THORNTON | SJCMT | Admissio

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<td>P A 315B</td>
<td>PERFORMANCE PRACTICES IN TECHNICAL THEATRE II-SETS</td>
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<td>Study, rehearsal, and performance of technical theatre. This course builds on 315A, adding basic theatre production techniques. Cumulates in a full-scale production performed for a public audience.</td>
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| 31358 | P A -315B-02 | LAB | TBA | TBA | TBA | THORNTON | PYT | Admissio
| 31370 | P A -315B-03 | LAB | TBA | TBA | TBA | THORNTON | SJCMT | Admissio

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<td>P A 315C</td>
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<tr>
<td>Study, rehearsal, and performance of technical theatre. This course builds on 341B, adding instruction in costumes and make-up designed for theatre. Cumulates in a full-scale production performed for a public audience.</td>
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| 31359 | P A -315C-02 | LAB | TBA | TBA | TBA | THORNTON | PYT | Admissio
| 31371 | P A -315C-03 | LAB | TBA | TBA | TBA | THORNTON | SJCMT | Admissio

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<td>P A 315D</td>
<td>PERFORMANCE PRACTICES IN TECHNICAL THEATRE IV-LIGHTING</td>
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<td>12 hours laboratory. (144 total hours per quarter.)</td>
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<td>Study, rehearsal, and performance of technical theatre. This course builds on 315C, adding techniques of light design and implementation for theatre. Cumulates in a full-scale production performed for a public audience.</td>
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| 31360 | P A -315D-02 | LAB | TBA | TBA | TBA | THORNTON | PYT | Admissio
| 31372 | P A -315D-03 | LAB | TBA | TBA | TBA | THORNTON | SJCMT | Admissio

### Course Number Title Units

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<td>Study, rehearsal, and performance of technical theatre. This course builds on 315D, adding techniques of sound design and operation for theatre. Cumulates in a full-scale production performed for a public audience.</td>
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| 31361 | P A -315E-02 | LAB | TBA | TBA | TBA | THORNTON | PYT | Admissio
| 31373 | P A -315E-03 | LAB | TBA | TBA | TBA | THORNTON | SJCMT | Admissio

### Course Number Title Units

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<td>Study, rehearsal, and performance of technical theatre. This course builds on previous courses, adding techniques of stage management for theatre. Cumulates in a full-scale production performed for a public audience.</td>
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| 31362 | P A -315F-02 | LAB | TBA | TBA | TBA | THORNTON | PYT | Admissio
| 31374 | P A -315F-03 | LAB | TBA | TBA | TBA | THORNTON | SJCMT | Admissio

### Course Number Title Units

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<td>P A 331A</td>
<td>PERFORMANCE PRACTICES IN INSTRUMENTAL MUSIC I</td>
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<tr>
<td>Study, rehearsal, and performance of ensemble instrumental performance. Designed as a performance course for players of strings, wood, brass and percussion instruments of little ensemble experience under the tutelage of a music professional.</td>
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| 31345 | P A -331A-02 | LAB | TBA | TBA | TBA | THORNTON | ECYS | Admissio

### Course Number Title Units

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<td><strong>Advisory:</strong> Enrollment is limited to six times within the P A group.</td>
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<tr>
<td>Study, rehearsal, and performance of ensemble instrumental performance for musicians who have taken PA 331A or equivalent. Builds on the previous course, with further emphasis on musicality and technique. Designed as a performance course for players of string, wood, brass and percussion instruments under the tutelage of a music professional.</td>
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unless otherwise noted, Winter Quarter runs Jan. 6–March 28, 2014. All courses are Title 5 Degree applicable credit courses unless otherwise noted. All fee payments are due at time of registration. Instructors are not obligated to hold a seat for the student who is enrolled but does not attend the first class meeting. The course listings in this PDF were accurate as of Nov. 4, 2013. Be aware that course listing and footnote information may have changed. For the most accurate, current course listings, always access the online class schedule.
### Winter Quarter 2014 Courses

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<thead>
<tr>
<th>Course Number</th>
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P A 331C PERFORMANCE PRACTICES IN INSTRUMENTAL MUSIC III  
Prerequisite: Enrollment subject to audition.  
Advisory: Pass/No Pass; enrollment is limited to six times within the P A group.  
18 hours laboratory. (216 total hours per quarter.)  
Not Repeatable.  
Study, rehearsal, and performance of ensemble instrumental performance for musicians who have taken P A 331B or equivalent. Builds on the previous courses, emphasizing both individual accuracy and section unification. Designed as a performance course for players of string, woodwind, brass, and percussion instruments under the tutelage of a music professional.  

<table>
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<tr>
<th>Course Number</th>
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P A 331D PERFORMANCE PRACTICES IN INSTRUMENTAL MUSIC IV  
Prerequisite: Enrollment subject to audition.  
Advisory: Pass/No Pass; enrollment is limited to six times within the P A group.  
18 hours laboratory. (216 total hours per quarter.)  
Not Repeatable.  
Study, rehearsal, and performance of ensemble instrumental performance for musicians who have taken P A 331C or equivalent. Builds on the previous courses, concentrating on styles and periods of music, and their interpretation. Designed as a performance course for players of string, woodwind, brass, and percussion instruments under the tutelage of a music professional.  

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P A 331E PERFORMANCE PRACTICES IN INSTRUMENTAL MUSIC V  
Prerequisite: Enrollment subject to audition.  
Advisory: Pass/No Pass; enrollment is limited to six times within the P A group.  
18 hours laboratory. (216 total hours per quarter.)  
Not Repeatable.  
Study, rehearsal, and performance of ensemble instrumental performance for musicians who have taken P A 331D or equivalent. Builds on the previous courses, with the addition of playing in smaller ensembles. Designed as a performance course for players of string, woodwind, brass, and percussion instruments under the tutelage of a music professional.  

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*Admission to all Performing Arts Classes by prior audition only. Please contact thorntonkay@foothill.edu.*

### Performance Practices & Performance Voice

#### A Performance Practices in Opera-Choruses, Rehearsals, & Performance Voice

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<th>Course ID</th>
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P A 341A PERFORMANCE PRACTICES IN OPERA-CHORUS, COACHINGS, REHEARSALS & PERFORMANCE NOISE  
Prerequisite: Enrollment subject to audition.  
Advisory: Pass/No Pass; enrollment is limited to six times within the P A group.  
18 hours laboratory. (216 total hours per quarter.)  
Not Repeatable.  
Study, rehearsal, and performance of opera repertoire. This course builds on the skills acquired in P A 341A, adding tutelage for students wishing to perform in a minor role.  
Culminates in a full-scale production performed for a public audience.  

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#### A Performance Practices in Opera Small Roles

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P A 341B PERFORMANCE PRACTICES IN OPERA-SMALL ROLES  
Prerequisite: Enrollment subject to audition.  
Advisory: Pass/No Pass; enrollment is limited to six times within the P A group.  
18 hours laboratory. (216 total hours per quarter.)  
Not Repeatable.  
Study, rehearsal, and performance of opera repertoire. This course builds on 341A, adding instruction in costumery and make-up designed for opera.  
Culminates in a full-scale production performed for a public audience.  

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#### A Performance Practices in Opera-Costume & Make-Up

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P A 341C PERFORMANCE PRACTICES IN OPERA-COSTUME & MAKE-UP  
Prerequisite: Enrollment subject to audition.  
Advisory: Pass/No Pass; enrollment is limited to six times within the P A group.  
18 hours laboratory. (216 total hours per quarter.)  
Not Repeatable.  
Study, rehearsal, and performance of opera repertoire. This course builds on 341B, adding instruction in costume design and construction for opera.  
Culminates in a full-scale production performed for a public audience.  

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#### A Performance Practices in Opera Sets

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P A 341D PERFORMANCE PRACTICES IN OPERA-SETS  
Prerequisite: Enrollment subject to audition.  
Advisory: Pass/No Pass; enrollment is limited to six times within the P A group.  
18 hours laboratory. (216 total hours per quarter.)  
Not Repeatable.  
Study, rehearsal, and performance of opera repertoire. This course builds on previous courses, adding best practices in set design and construction for opera.  
Culminates in a full-scale production performed for a public audience.  

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#### A Performance Practices in Opera-Lighting

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<td>6</td>
<td>Units</td>
<td>Time</td>
<td>Thornton</td>
<td>WBO</td>
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</tbody>
</table>

P A 341E PERFORMANCE PRACTICES IN OPERA-LIGHTING  
Prerequisite: Enrollment subject to audition.  
Advisory: Pass/No Pass; enrollment is limited to six times within the P A group.  
18 hours laboratory. (216 total hours per quarter.)  
Not Repeatable.  

### Admission to all Performing Arts Classes by prior audition only. Please contact thorntonkay@foothill.edu.

### Winter Quarter 2014 Courses

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## Winter Quarter 2014 Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>CRN</th>
<th>Title</th>
<th>Units</th>
<th>Activity</th>
<th>Time</th>
<th>Days</th>
<th>Instructor</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCA 55D</td>
<td>30811</td>
<td>PROFESSIONALISM/ CULTURAL MEDICINE IV</td>
<td>3 Units</td>
<td>LEC</td>
<td>09-11:50 AM</td>
<td>M</td>
<td>HIROAOKA</td>
<td>SMC</td>
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<tr>
<td></td>
<td></td>
<td>Prerequisite: PCA 55C.</td>
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<td></td>
<td></td>
<td>3 hours lecture. (36 total hours per quarter.)</td>
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<td></td>
<td></td>
<td>Continuation of PCA 55C. This course focuses on preparation for practice in the PA profession: including national certification and CA licensing requirements, medical malpractice, and healthcare practice issues. It includes development of skills to practice culturally appropriate medicine. Required for Physician Assistant students.</td>
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<tr>
<td>PCA 56C</td>
<td>30631</td>
<td>CORE MEDICINE III</td>
<td>9 Units</td>
<td>LEC</td>
<td>09-11:50 AM</td>
<td>WThF</td>
<td>HIROAOKA</td>
<td>SMC</td>
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<tr>
<td></td>
<td></td>
<td>Formerly: P C 81</td>
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<td></td>
<td></td>
<td>Prerequisite: PCA 56B.</td>
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<td></td>
<td></td>
<td>Advisory: Not open to students with credit in P C 81.</td>
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<tr>
<td></td>
<td></td>
<td>9 hours lecture. (108 total hours per quarter.)</td>
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<td>Not Repeatable.</td>
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<td>This course is the third of a series of seven courses. It covers the presentation, evaluation, diagnosis and management of primary care disorders of the following special groups: children, elders and women of reproductive age, including pregnancy. Systems-based instruction in detecting and managing oncologic disorders is presented. End of life issues are explored. The lectures expand and build on knowledge of topics introduced during PCA 56A and 56B. The systems/topics include Primary Care Issues in Pediatrics, Geriatrics, Oncology, and End of Life Issues. Required for Physician Assistant students.</td>
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<tr>
<td>PCA 56G</td>
<td>30631</td>
<td>CORE MEDICINE VII</td>
<td>2 Units</td>
<td>LEC</td>
<td>09-11:50 AM</td>
<td>WThF</td>
<td>HIROAOKA</td>
<td>SMC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Formerly: P C 84</td>
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<tr>
<td></td>
<td></td>
<td>Prerequisite: PCA 56F.</td>
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<td></td>
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<td>Advisory: Not open to students with credit in P C 84.</td>
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<tr>
<td></td>
<td></td>
<td>2 hours lecture. (24 total hours per quarter.)</td>
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<td>Not Repeatable.</td>
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<td>This course is the seventh and final course of this series. It provides a summary review of all aspects of Core Medicine, Basic Science, Anatomy &amp; Physiology, Pharmacology in preparation for summative evaluation, graduation and taking the Physician Assistant National Certifying Exam (PANCE). Required for Physician Assistant students.</td>
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<tr>
<td>PCA 60A</td>
<td>30632</td>
<td>PRECEPTORSHIP I</td>
<td>4 Units</td>
<td>LAB</td>
<td>08-09:50 AM</td>
<td>M</td>
<td>HIROAOKA</td>
<td>HOSP</td>
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<tr>
<td></td>
<td></td>
<td>Formerly: P C 81</td>
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<tr>
<td></td>
<td></td>
<td>Prerequisites: PCA 51A, 52B, 53B, 54B, 55B, 56B.</td>
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<td></td>
<td></td>
<td>Advisory: Not open to students with credit in P C 81P.</td>
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<td></td>
<td></td>
<td>20 hours preceptorship. (240 total hours per quarter.)</td>
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<td></td>
<td>Not Repeatable.</td>
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<td>First of five courses in the clinical sequence of the Primary Care Associate Program. Assessing, planning, implementing, and evaluating patients in a primary care clinical setting. Development of progress in clinical performance with each successive academic period. Required for Physician Assistant students.</td>
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<tr>
<td>PCA 60E</td>
<td>30632</td>
<td>PRECEPTORSHIP V</td>
<td>6 Units</td>
<td>LAB</td>
<td>08-09:50 AM</td>
<td>M</td>
<td>HIROAOKA</td>
<td>HOSP</td>
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<tr>
<td></td>
<td></td>
<td>Formerly: P C 84P</td>
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<td></td>
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<td>Prerequisites: PCA 60D.</td>
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<td>Advisory: Not open to students with credit in P C 84P.</td>
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<td></td>
<td></td>
<td>30 hours preceptorship. (360 total hours per quarter.)</td>
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</tbody>
</table>

Continued on next page

### Primary Care Associate

**Biological & Health Sciences**  
(650) 725-6959  
www.foothill.edu/bio/programs/primary/

Notice to students: PC courses are intended for students completing the Primary Care Associate Program. PCA course are intended for students admitted to the Primary Care Program in 2011.

**PCA 54C**  
PRE-CLINICAL III  
Formerly: P C 81P  
Prerequisite: PCA 54B.  
Advisory: Not open to students with credit in P C 81P.  
2 hours lecture, 6 hours laboratory. (96 total hours per quarter.)  
Not Repeatable.  
Third of four courses in the preclinical sequence of the Primary Care Associate Program. Focus on behavioral medicine, clinical skills, and clinical problem solving. It includes the health history and physical exam of the pediatric and geriatric patient. It also includes a series of technical skills workshops necessary to provide primary care in the outpatient setting. Required for Physician Assistant students.

**PCA 55C**  
PROFESSIONALISM/ CULTURAL MEDICINE III  
Prerequisite: PCA 55B.  
1 hour lecture, every two weeks. (6 total hours per quarter.)  
Not Repeatable.  
This course is a continuation of PCA 55B. It continues to focus on professional, ethical, and cross-cultural issues in the PA profession. Content includes national and local PA profession regulations, PA scope of practice, primary care practice and the under-served population. It also include concepts on ethnogeriatrics. Required for Physician Assistant students.

### Winter Quarter 2014 Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
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<th>Time</th>
<th>Days</th>
<th>Instructor</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>30631</td>
<td>CORE MEDICINE VII</td>
<td>2 Units</td>
<td>LEC</td>
<td>09-11:50 AM</td>
<td>WThF</td>
<td>HIROAOKA</td>
<td>SMC</td>
</tr>
<tr>
<td>30632</td>
<td>PRECEPTORSHIP I</td>
<td>4 Units</td>
<td>LAB</td>
<td>08-09:50 AM</td>
<td>M</td>
<td>HIROAOKA</td>
<td>HOSP</td>
</tr>
<tr>
<td>30632</td>
<td>PRECEPTORSHIP V</td>
<td>6 Units</td>
<td>LAB</td>
<td>08-09:50 AM</td>
<td>M</td>
<td>HIROAOKA</td>
<td>HOSP</td>
</tr>
</tbody>
</table>

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www.foothill.edu
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<th>Units</th>
<th>Activity</th>
<th>Time</th>
<th>Days</th>
<th>Instructor</th>
<th>Location</th>
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<tbody>
<tr>
<td>30809</td>
<td>PCA -060E-01</td>
<td>LAB 09 AM-04:15 PM</td>
<td>TTH</td>
<td>HIRAHOKA</td>
<td>HOSP</td>
<td>Schedule subject to change due to clinic assignments.</td>
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<tr>
<td>31039</td>
<td>PHED-011B-02</td>
<td>LAB 02-03:15 PM</td>
<td>TTh</td>
<td>O’LOUGHLIN</td>
<td>2506</td>
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<tr>
<td>31415</td>
<td>PHED-013B-01</td>
<td>LAB 07:30-08:45 PM</td>
<td>TTh</td>
<td>BISSELL</td>
<td>POOL</td>
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</tbody>
</table>

### Physical Education

**PHED 10A AQUATICS: LEVEL I, BEGINNING SWIMMING** 1 Unit  
Advisory: This course is included in the Aquatic family of activity courses. 3 hours laboratory. (36 total hours per quarter.) Not Repeatable. 
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  
Advisory: This course is included in the Aquatic family of activity courses. 3 hours laboratory. (36 total hours per quarter.) Not Repeatable. 
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 competitive swim strokes. In addition to swimming, this class also includes intermediate water safety skills and knowledge leading to safe practices while in, on or about the water.

**PHED 11B AQUATIC FITNESS** 1 Unit  
Advisory: This course is included in the Aquatic family of activity courses. 3 hours laboratory. (36 total hours per quarter.) Not Repeatable. 
An aerobic water fitness program applying the basic principles of exercise and dynamics of water movement.

**PHED 13B ADVANCED WATER POLO** 1 Unit  
Advisory: This course is included in the Team Sports family of activity courses. 3 hours laboratory. (36 total hours per quarter.) Not Repeatable. 
Advanced skills in various offensive and defensive techniques of water polo.

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<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
<th>Prerequisite</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PHED 18B</td>
<td>INTERMEDIATE TAI CHI (TAIJI)</td>
<td>1</td>
<td>PHED 18</td>
<td>This course is included in the Combatives family of activity courses.</td>
</tr>
<tr>
<td>PHED 19B</td>
<td>KICKBOXING FOR FITNESS</td>
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<td>PHED 19B</td>
<td>This course is included in the Combatives family of activity courses.</td>
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<tr>
<td>PHED 19C</td>
<td>INTERMEDIATE KICKBOXING FOR FITNESS</td>
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<td>PHED 19C</td>
<td>This course is included in the Combatives family of activity courses.</td>
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<tr>
<td>PHED 20A</td>
<td>BEGINNING MAT PILATES</td>
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<td>PHED 20A</td>
<td>This course is included in the Combatives family of activity courses.</td>
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<tr>
<td>PHED 20B</td>
<td>INTERMEDIATE MAT PILATES</td>
<td>1</td>
<td>PHED 20B</td>
<td>This course is included in the Combatives family of activity courses.</td>
</tr>
<tr>
<td>PHED 21A</td>
<td>BEGINNING HATHA YOGA</td>
<td>1</td>
<td>PHED 21A</td>
<td>This course is included in the Combatives family of activity courses.</td>
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<tr>
<td>PHED 21B</td>
<td>INTERMEDIATE HATHA YOGA</td>
<td>1</td>
<td>PHED 21B</td>
<td>This course is included in the Combatives family of activity courses.</td>
</tr>
<tr>
<td>PHED 21C</td>
<td>VINYASA FLOW YOGA</td>
<td>1</td>
<td>PHED 21C</td>
<td>This course is included in the Combatives family of activity courses.</td>
</tr>
</tbody>
</table>

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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 BEGINNING FULL-BODY FLEXIBILITY 1 Unit
Advisory: This course is included in the Flexibility & Stability family of activity courses.
3 hours laboratory. (36 total hours per quarter.) Not Repeatable.
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 INTERMEDIATE FULL-BODY FLEXIBILITY 1 Unit
Prerequisite: PHED 22.
Advisory: This course is included in the Flexibility & Stability family of activity courses.
3 hours laboratory. (36 total hours per quarter.) Not Repeatable.
An intermediate level stretching program emphasizing seated and standing flexibility exercises for the hips, hamstrings, quadriceps, wrists, ankles, shoulders, obliques, and lumbar, thoracic and cervical spine. Complimentary abdominal exercises and standing postures will be introduced to develop balance, tone and endurance.

PHED 22B PILATES & YOGA 1 Unit
Advisory: This course is included in the Flexibility & Stability family of activity courses.
3 hours laboratory. (36 total hours per quarter.) Not Repeatable.
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 CONDITIONING 1 Unit
Advisory: This course is included in the Flexibility & Stability family of activity courses.
3 hours laboratory. (36 total hours per quarter.) Not Repeatable.
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
Advisory: This course is included in the Cardio Fitness family of activity courses.
3 hours laboratory. (36 total hours per quarter.) Not Repeatable.
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
Advisory: This course is included in the Cardio Fitness family of activity courses.
3 hours laboratory. (36 total hours per quarter.) Not Repeatable.
A hiking class designed to prepare healthy, fit individuals for a final 8-12 mile hike on established trails over moderate to steep terrain.

PHED 24 INTRODUCTION TO GOLF 1 Unit
Advisory: This course is included in the Individual Sports family of activity courses.
3 hours laboratory. (36 total hours per quarter.) Not Repeatable.
This course teaches the fundamentals of the golf swing, knowledge of equipment, terminology and course etiquette.

PHED 24A SWING DEVELOPMENT FOR THE EXPERIENCED GOLFER 1 Unit
Advisory: This course is included in the Individual Sports family of activity courses.
3 hours laboratory. (36 total hours per quarter.) Not Repeatable.
Development of golf skills for the intermediate/advanced player including grip, posture, alignment and swing fundamentals, selection of equipment, knowledge of rules, etiquette and course management.

PHED 24B SKILLS OF GOLF COURSE PLAY 1 Unit
Advisory: Students are expected to have previously gained an understanding of and proficiency with basic golf swings for a variety of club types. No previous golf course experience is necessary; this course is included in the Individual Sports family of activity courses.
3 hours laboratory. (36 total hours per quarter.) Not Repeatable.
Introduction to beginning golf course play includes basic fundamentals of the golf swing, knowledge of rules and golf course etiquette as well as developing on course experience.

PHED 24C INTERMEDIATE GOLF COURSE PLAY 2 Units
Prerequisite: PHED 25B.
Advisory: This course is included in the Individual Sports family of activity courses; not open to students with credit in H P 25DX.
6 hours laboratory. (72 total hours per quarter.) Not Repeatable.
Students will play 18 hole course including multiple game formats (scramble, shotgun and bestball), practice with club selection and reading the ball.

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<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>PHED 25A</td>
<td>SWING ANALYSIS</td>
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<tr>
<td>PHED 25B</td>
<td>BEGINNING GOLF COURSE PLAY</td>
<td>2</td>
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<tr>
<td>PHED 26</td>
<td>BEGINNING TENNIS SKILLS</td>
<td>1</td>
</tr>
<tr>
<td>PHED 26A</td>
<td>INTERMEDIATE TENNIS</td>
<td>1</td>
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<tr>
<td>PHED 26C</td>
<td>BEGINNING DOUBLES TENNIS</td>
<td>1</td>
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<tr>
<td>PHED 26D</td>
<td>INTERMEDIATE DOUBLES TENNIS</td>
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<tr>
<td>PHED 31A</td>
<td>FUTSAL-INDOOR SOCCER BEGINNING</td>
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<tr>
<td>PHED 31B</td>
<td>FUTSAL-INDOOR SOCCER INTERMEDIATE</td>
<td>1</td>
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<tr>
<td>PHED 36A</td>
<td>BEGINNING ARCHERY</td>
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<tr>
<td>PHED 36B</td>
<td>INTERMEDIATE ARCHERY</td>
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</tr>
<tr>
<td>PHED 37</td>
<td>BEGINNING BADMINTON: SINGLES &amp; DOUBLES</td>
<td>1</td>
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</tbody>
</table>

**Winter Quarter 2014 Courses**

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Foothill College • Winter Quarter 2014
### Winter Quarter 2014 Courses

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<th>Time</th>
<th>Days</th>
<th>Instructor</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHED 37A</td>
<td>INTERMEDIATE BADMINTON: SINGLES &amp; DOUBLES</td>
<td>1 Unit</td>
<td>3 hours laboratory. (36 total hours per quarter.) Not Repeatable.</td>
<td>08-10:50 PM</td>
<td>Th</td>
<td>BAUM</td>
<td>MCPAV</td>
</tr>
<tr>
<td>PHED 38A</td>
<td>BASKETBALL FUNDAMENTALS</td>
<td>1 Unit</td>
<td>3 hours laboratory. (36 total hours per quarter.) Not Repeatable.</td>
<td>08-10:50 PM</td>
<td>Th</td>
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</tr>
<tr>
<td>PHED 38B</td>
<td>BASKETBALL GAME SKILLS</td>
<td>1 Unit</td>
<td>3 hours laboratory. (36 total hours per quarter.) Not Repeatable.</td>
<td>08-10:50 PM</td>
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<tr>
<td>PHED 41A</td>
<td>FOUNDATIONS OF STRENGTH &amp; CONDITIONING</td>
<td>1 Unit</td>
<td>3 hours laboratory. (36 total hours per quarter.) Not Repeatable.</td>
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<td>2506</td>
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<td>PHED 41B</td>
<td>INTERMEDIATE INDOOR CYCLING</td>
<td>1 Unit</td>
<td>3 hours laboratory. (36 total hours per quarter.) Not Repeatable.</td>
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<tr>
<td>PHED 42A</td>
<td>BOWLING FOR FITNESS</td>
<td>1 Unit</td>
<td>3 hours laboratory. (36 total hours per quarter.) Not Repeatable.</td>
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<td>PHED 43A</td>
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<td>PHED 44A</td>
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<tr>
<td>PHED 45C</td>
<td>CIRCUIT TRAINING</td>
<td>1 Unit</td>
<td>3 hours laboratory. (36 total hours per quarter.) Not Repeatable.</td>
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<tr>
<td>PHED 46A</td>
<td>FOUNDATIONS OF STRENGTH &amp; CONDITIONING</td>
<td>1 Unit</td>
<td>3 hours laboratory. (36 total hours per quarter.) Not Repeatable.</td>
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<tr>
<td>PHED 46B</td>
<td>WEIGHT LIFTING FOR HEALTH &amp; FITNESS</td>
<td>1 Unit</td>
<td>3 hours laboratory. (36 total hours per quarter.) Not Repeatable.</td>
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</table>

Unless otherwise noted, Winter Quarter runs Jan. 6–March 28, 2014. All courses are Title 5 Degree applicable credit courses unless otherwise noted. All fee payments are due at time of registration. Instructors are not obligated to hold a seat for the student who is enrolled but does not attend the first class meeting. The course listings in this PDF were accurate as of Nov. 4, 2013. Be aware that course listing and footnote information may have changed. For the most accurate, current course listings, always access the online class schedule.
Winter Quarter 2014 Courses

PHED 46A  CORE FLOW STRENGTH TRAINING  1 Unit
Advisory: This course is included in the Strength Development family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
A total body conditioning class that emphasizes intense free weight exercises set to music and incorporates core conditioning. Featured equipment includes dumbbells, body bar, resistance bands, body weight and balls. Students must provide their own fitness mat.

PHED 47B  THIGHS, ABS & GLUTEUS (TAG)  1 Unit
Advisory: This course is included in the Cross Training family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
This course is designed to strengthen thigh, abdominal and gluteus muscles in an intensive, fun and highly energized workout.

PHED 47C  HIGH INTENSITY INTERVAL TRAINING (HIIT)  1 Unit
Advisory: This course is included in the Cross Training family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
An intense total body workout designed to improve endurance and strengthen and define every muscle in every way using high intensity intervals. This type of training is effective way to train which takes your fitness to the next level. Students must provide their own fitness mat.

PHED 49A  SURVIVOR TRAINING  1 Unit
Advisory: This course is included in the Cross Training family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
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  1 Unit
Advisory: This course is included in the Cross Training family of activity courses.
3 hours laboratory. (36 total hours per quarter.)
Not Repeatable.
This course is designed for students who want a program in which group training uses functional fitness activities to develop core strength, cardiovascular conditioning and muscle strength and power.

PHILOSOPHY

PHIL 1  CRITICAL THINKING & WRITING  5 Units
Prerequisite: ENGL 1A.
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
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. (48 total hours per quarter.)
Not Repeatable.
Social and political philosophies of classical, modern and contemporary thinkers. Issues of concern to include the justification and structure of the political state, constitution of government, individual rights and distribution of wealth.

PHIL 4  INTRODUCTION TO PHILOSOPHY  4 Units
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
Introductory survey of basic principles and concepts of philosophy. Primarily examines major topics in the study of metaphysics and epistemology. Related topics of concern to include ethics, theology and political philosophy.

PHIL 8  ETHICS  5 Units
5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
Analysis and application of competing conceptions of the good. Course focuses on ethical theory (utilitarianism, duty-oriented ethics, virtue ethics, egoism, relativism etc.) and various topics in applied ethics.

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www.foothill.edu  75  Foothill College • Winter Quarter 2014
### Winter Quarter 2014 Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Units</th>
<th>Time</th>
<th>Days</th>
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<tr>
<td>PHIL 20A</td>
<td>HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS</td>
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<td>4 hours lecture. (48 total hours per quarter.)</td>
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Not Repeatable.

Examination of Western philosophy with an emphasis on Greek philosophy from Thales through Aristotle and selected medieval philosophers from Augustine to St. Thomas Aquinas.

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<tr>
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<th>PHIL 25</th>
<th>COMPARATIVE WORLD RELIGIONS: WEST</th>
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Not Repeatable.

Explores the origin, history and significant world’s of the West’s religious and philosophical traditions. We will compare the fundamental insights, ideals and contributions toward the human moral heritage and wisdom of the Early Religions, Judaism, Zoroastrianism, Christianity, and Islam.

<table>
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<tr>
<th>PHOT 1</th>
<th>BLACK &amp; WHITE PHOTOGRAPHY I</th>
<th>4</th>
<th>Units</th>
<th>Time</th>
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<tr>
<td></td>
<td>Advertisiment: This course is included in the Analog Photography family of activity courses.</td>
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</table>

2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory. (78 total hours per quarter.)

Not Repeatable.

Fundamentals of black and white photography. Introduction to the historical development of the medium and the role that photography has played in shaping social issues and on its effect on culture. Practical investigation of photography’s potential to contribute to personal visual expression. Exposure to multiple perspectives on photography as practiced and contributed by diverse cultures. Topics cover 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.

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<th>DIGITAL PHOTOGRAPHY I</th>
<th>4</th>
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<th>Time</th>
<th>Days</th>
<th>Instructor</th>
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<tbody>
<tr>
<td></td>
<td>Advertisiment: PHOT 1, 5 or equivalent; this course is included in the Digital Photography family of activity courses; not open to students with credit in PHOT 65A.</td>
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</table>

2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory. (78 total hours per quarter.)

Not Repeatable.

Introduction to the tools for expressive communication in digital photography using Adobe Photoshop and Adobe Photoshop Lightroom. Development of skills in image capture, enhancement, printing, and web publishing, for both fine art and commercial applications.

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<th>DIGITAL PHOTOGRAPHY II</th>
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<th>Time</th>
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</table>

Advisory: PHOT 4A or equivalent experience; this course is included in the Digital Photography family of activity courses; not open to students with credit in PHOT 65B. 2 hours lecture, 3 hours lecture-laboratory, 1.5 hours laboratory. (78 total hours per quarter.)

Not Repeatable.

Intermediate level exploration with the tools for expressive communication in digital photography using Adobe Photoshop and Adobe Photoshop Lightroom. Development of skills in image capture, enhancement, printing, and web publishing, for both fine art and commercial applications.

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<tr>
<th>PHOT 5</th>
<th>INTRODUCTION TO PHOTOGRAPHY</th>
<th>4</th>
<th>Units</th>
<th>Time</th>
<th>Days</th>
<th>Instructor</th>
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<tbody>
<tr>
<td></td>
<td>A survey of the historical and practical aspects of photography as an art form. Students will be introduced to the use of light, composition and communication through images. Significant photographers from a diversity of backgrounds will inspire students in the practice of photography and developing an appreciation of the varied uses of the photographic image in our culture.</td>
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</table>

3 hours lecture, 2 hours lecture-laboratory. (60 total hours per quarter.)

Not Repeatable.

<table>
<thead>
<tr>
<th>CRN</th>
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<tr>
<td>30194</td>
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<tr>
<th>PHOT 8</th>
<th>PHOTOGRAPHY OF MULTICULTURAL AMERICA</th>
<th>4</th>
<th>Units</th>
<th>Time</th>
<th>Days</th>
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<tbody>
<tr>
<td></td>
<td>Advisory: Not open to students with credit in PHOT 8H. 4 hours lecture, 2 hours laboratory. (72 total hours per quarter.) Not Repeatable. 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.</td>
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<th>PHOT 9</th>
<th>PHOTOGRAPHY OF MULTICULTURAL AMERICA</th>
<th>4</th>
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<tr>
<td></td>
<td>Advisory: Not open to students with credit in PHOT 9H. 4 hours lecture, 2 hours laboratory. (72 total hours per quarter.) Not Repeatable. 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.</td>
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PHOT 8H HONORS PHOTOGRAPHY OF MULTICULTURAL AMERICA
Prerequisite: Honors Institute participant.
Advisory: Not open to students with credit in PHOT 8.
4 hours lecture, 2 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
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, erotic, and fine-art photography are discussed within their historical and social context.
The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills.

PHOT 10 HISTORY OF PHOTOGRAPHY
Advisory: PHOT 1 or equivalent; not open to students with credit in PHOT 10H.
3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
Not Repeatable.
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.

PHARMACY TECHNOLOGY

There is a selective admission process to enroll in these classes. For an application, call (650) 949-6955.

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<table>
<thead>
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<th>Course Number</th>
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<tr>
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<td>DISPENSING &amp; COMPOUNDING A</td>
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<td>PHT 60</td>
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<tr>
<td>PHT 62</td>
<td>HOSPITAL CLINICAL</td>
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<td>PHT 200L</td>
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<tr>
<td>PHYS 2C</td>
<td>GENERAL PHYSICS</td>
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<tr>
<td>PHYS 4A</td>
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**PHYSICS**

Physical Sciences, Mathematics & Engineering

**PHYS 2A** GENERAL PHYSICS 5 Units

Prerequisite: MATH 48C or higher placement on the Foothill College Placement Exam.

4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (84 total hours per quarter.)

Not Repeatable.

Lectures, demonstrations, and problems in mechanics; properties of matter.

<table>
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<th>Course ID</th>
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**PHYS-002A-01:** Additional costs for online materials or content in place of or in addition to a textbook may be required.

**PHYS-002B-01:** Additional costs for online materials or content in place of or in addition to a textbook may be required.

**PHYS-002C-01:** Additional costs for online materials or content in place of or in addition to a textbook may be required.

**PHYS-004A-01:** Additional costs for online materials or content in place of or in addition to a textbook may be required.

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**PHYS 4B**  
**GENERAL PHYSICS (CALCULUS)**  
**6 Units**  
**Prerequisite:** PHYS 4A.  
Corequisite: Completion of or concurrent enrollment in MATH 1C.  
5 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (96 total hours per quarter.)  
Not Repeatable.  
Classical electricity and magnetism.

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**PHYS 4C**  
**GENERAL PHYSICS (CALCULUS)**  
**6 Units**  
**Prerequisites:** PHYS 4B or 5A, 5B and 5C.  
Corequisite: Completion of or concurrent enrollment in MATH 1D.  
5 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (96 total hours per quarter.)  
Not Repeatable.  
Thermodynamics; mechanical, acoustical, and electromagnetic waves; optics.

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**PHYS 5A**  
**GENERAL PHYSICS (CALCULUS) EXTENDED**  
**5 Units**  
**Prerequisite:** MATH 1A.  
Corequisite: Completion of or concurrent enrollment in MATH 1B.  
4 hours lecture, 1 hour lecture-laboratory, 2 hours laboratory. (84 total hours per quarter.)  
Not Repeatable.

**PHYS 2AM**  
**GENERAL PHYSICS - CALCULUS**  
**1 Unit**  
**SUPPLEMENT**  
Prerequisite: MATH 1A  
Corequisite: Completion of or concurrent enrollment in MATH 1B and PHYS 2A.  
1 hour lecture. (12 total hours per quarter.)  
Not Repeatable.  
Application of calculus to physics topics and problems in mechanics.

31172 PHYS-02AM-01W LEC  
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**Continued on next page**
### Winter Quarter 2014 Courses

#### PHYSICAL SCIENCES & ENGINEERING

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<td>PSE 42</td>
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<td>CLASS PRACTICES: ELEMENTARY SCHOOL SCIENCE</td>
<td>2 Units</td>
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<td>CLASS PRACTICES: HIGH SCHOOL SCIENCE</td>
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**Prerequisites:**
- PSE 41: Satisfactory score on the mathematics placement test or MATH 105 or 108; college level chemistry, physics or biology course; approval by the instructor; participation in an interview session; will require a current TB test, finger printing, and background investigation.
- Advisory: ENGL 209 or ESLL 25; Pass/No Pass; not open to students with credit in CHEM 41.

- PSE 42: Satisfactory score on the mathematics placement test or MATH 105 or 108; college level chemistry, physics or biology course; approval by the instructor; participation in an interview session; will require a current TB test, finger printing, and background investigation.
- Advisory: ENGL 209 or ESLL 25; Pass/No Pass; not open to students with credit in CHEM 42.

- PSE 43: Must participate in an interview session; satisfactory score on the mathematics placement test or MATH 105 or 108; college level chemistry, physics or biology course; approval by the instructor; will require a current TB test, finger printing, and background investigation.
- Advisory: ENGL 209 or ESLL 25; Pass/No Pass; 1.5 hours lecture, 2 hours laboratory, (4.5 total hours per quarter.)
- Not Repeatable.

**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 a weekly seminar where relevant topics in education are discussed. Foothill students are expected to work a minimum of 18 hours (2 hrs/week x 9 weeks; will be adjusted for high school calendar as required) in the high school classroom during the quarter. Students will observe a successful and experienced mentor teacher, assist the mentor teacher, and provide support to ensure a positive classroom environment conducive to learning.**

**Advisory:**
- ENGL 209 or ESLL 25; Pass/No Pass; not open to students with credit in CHEM 42.
- Finger printing, and background investigation.

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Unless otherwise noted, Winter Quarter runs Jan. 6–March 28, 2014. All courses are Title 5 Degree applicable credit courses unless otherwise noted. All fee payments are due at time of registration. Instructors are not obligated to hold a seat for the student who is enrolled but does not attend the first class meeting. The course listings in this PDF were accurate as of Nov. 4, 2013. Be aware that course listing and footnote information may have changed. For the most accurate, current course listings, always access the online class schedule.
### Winter Quarter 2014 Courses

#### Psychology

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**Notes:**
- All courses are Title 5 Degree applicable credit courses unless otherwise noted.
- All fees are due at time of registration. Instructors are not obligated to hold a seat for the student who is enrolled but does not attend the first class meeting. The course listings in this PDF were accurate as of Nov. 4, 2013. Be aware that course listing and footnote information may have changed. For the most accurate, current course listings, always access the online class schedule.
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<td>PSYC 14</td>
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<td>CHILD &amp; ADOLESCENT DEVELOPMENT</td>
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<td>PSYC 25</td>
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### Radiologic Technology

**Biological & Health Sciences**  (650) 949-7538  www.foothill.edu/bio/programs/radtech/

- **PSYC 54H**  HONORS INSTITUTE SEMINAR IN PSYCHOLOGY  1 Unit
  - Formerly: PSYC 34, 34H
  - Prerequisite: Honors Institute participant.
  - Advisory: Not open to students with credit in PSYC 34 or 34H.
  - 1 hour lecture, (12 total hours per quarter.)
  - Not Repeatable.
  - A seminar in directed readings, discussions and projects in psychology. Specific topics to be determined by the instructor.

- **R T 51B**  FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY II  4 Units
  - Prerequisite: R T 51A.
  - 3 hours lecture, 3 hours laboratory. (72 total hours per quarter.)
  - Not Repeatable.
  - Continuation of R T 51A; radiographic anatomy, positioning and procedures related to shoulder girdle, hip/pelvis, gastrointestinal tract, urinary system and biliary system. Intended for students accepted into the Radiologic Technology Program.

- **R T 52B**  PRINCIPLES OF RADIOLOGIC TECHNOLOGY II  3 Units
  - Prerequisite: R T 52A.
  - 3 hours lecture, (36 total hours per quarter.)
  - Not Repeatable.
  - Continuation of R T 52A, including physics, technique, processing and protection. Intended for students admitted into the Radiologic Technology Program.

- **R T 53B**  APPLIED RADIOGRAPHIC TECHNOLOGY II  3 Units
  - Prerequisite: R T 53A.
  - 16 hours clinical laboratory. (192 total hours per quarter.)
  - Not Repeatable.
  - This course is the second in a series of four sequential courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis is placed on the Biliary Tract, Upper & Lower Gastrointestinal System and the Urinary System. A clinical presentation is also required with the same emphasis. Intended for students admitted into the Radiologic Technology Program.

- **R T 54B**  LAW & ETHICS IN MEDICAL IMAGING  2 Units
  - Prerequisite: R T 54A.
  - Advisory: Not open to students with credit in R T 50A.
  - 2 hours lecture, (24 total hours per quarter.)
  - Not Repeatable.
  - A fundamental background in ethics, historical and philosophical basis of ethics, as well as elements of ethical behavior in regards to clinical practice. Misconduct, malpractice, legal and professional standards and the ASRT scope of practice. Intended for students accepted into the Radiologic Technology Program.

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[Continued on next page]
### Respiratory Therapy

**Biological & Health Sciences (650) 949-7538 [www.foothill.edu/bio/programs/respther/](http://www.foothill.edu/bio/programs/respther/)**

There is a selective admission process to enroll in these classes. For an application, call (650) 949-7538.

**RSPT 50B** INTRODUCTION TO PROCEDURES & HOSPITAL ORIENTATION 6 Units

Prerequisites: RSPT 50A & 54; CPR certification (Health Provider C). Advisory: RSPT 51A.

3 hours lecture, 6.5 hours laboratory, 4 hours clinic. (162 total hours per quarter.) Not Repeatable.

Introduction to hospital and patient care, administration of hyperinflation therapy, airway pharmacology, bronchial hygiene therapy with chest physiotherapy techniques, introduction to non-invasive ventilation, basic and advanced airway care, infection control procedures of equipment, nutrition assessment. This course is intended for students accepted and enrolled in the Respiratory Therapy Program.

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**RSPT 53A** INTRODUCTION TO RESPIRATORY THERAPY PHARMACOLOGY 2 Units

Prerequisite: Admission to the Respiratory Therapy Program. 2 hours lecture. (24 total hours per quarter.) Not Repeatable.

An in-depth study of drug groups commonly used in the treatment of respiratory diseases. This course is intended for students accepted and enrolled in the Respiratory Therapy Program.

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**RSPT 55B** MEDIATED STUDIES IN RESPIRATORY THERAPY II .5 Units

Prerequisite: Admission to the Respiratory Therapy Program. Advisory: This course is intended for students accepted and enrolled in the Respiratory Therapy Program. 2 hours laboratory. (24 total hours per quarter.) Not Repeatable.

Second in a series of seven Media instruction and evaluation in topics paralleling content taught in courses in the Respiratory Therapy Program. Media materials will provide an alternative learning resource for non-traditional students. This course is intended for students currently accepted and enrolled in the Respiratory Therapy Program.

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WINTER QUARTER 2014 COURSES

Major theories, concepts, methods, social institutions, and social processes. Development of a sociological imagination and social context analysis. Society in its social class, racial and gendered dynamics.

CRN Course ID Activity Time Days Instructor Location

30244 SOC -001-05W LEC TBA TBA GIBBS STAYTE ONLINE SOC -001-05W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin.

30514 RSPT-070C-01 LAB TBA TBA HANNING HOSP RSPT-070C-01: Schedule subject to assignment by clinical site. Students are required to complete 30 hrs/week, for a total of 360 clinical hours for the course.

30263 SOC -001-02Y LEC 08-09:50 AM TTh GIBBS STAYTE ONLINE SOC -001-02Y: Hybrid class: one weekly TBA hour via online instruction.

30601 SOC -001-07W LEC TBA TBA LOGG ONLINE SOC -001-07W: Offered via Internet. After registering, you must refer to course descriptions at www/foothill.edu/fga/ for information on how to begin.

SOC 7 STATISTICS FOR THE BEHAVIORAL SCIENCES

Prerequisites: PSYC 1 or SOC 1: satisfactory score on the Mathematics Placement Test or MATH 105 or MATH 108. 5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
This course is for students majoring in psychology, sociology, and other behavioral sciences. This course introduces students to the basic statistical techniques and design methodologies used in behavioral sciences. Topics include descriptive statistics; probability and sampling distributions; statistical inference and power; linear correlation and regression; chi-square; t-tests, and ANOVA. Computations will be completed by hand and with the use of statistical software. An emphasis will be placed on the interpretation and relevance of statistical findings and the application of statistical concepts to real-world problems in the behavioral and social sciences.

30900 SOC -007-01Q LEC 01-02:15 PM MW STEFONIK 3106

SOC 10 RESEARCH METHODS & DESIGNS

Prerequisite: PSYC 1 or SOC 1. Advisory: MATH 10; college-level reading and writing ability; not open to students with credit in PSYC 10. 4 hours lecture, 3 hours laboratory. (84 total hours per quarter.)
Not Repeatable.
Survey of the various quantitative and qualitative research methods. Emphasis on the research design, planning, experimental procedures, and the collection, analysis, interpretation, and reporting of data. Laboratory emphasis on group work, data entry, and analysis of data with statistical software.

30154 SOC -010-01Q LEC 12-01:50 PM TTh LIN 3106

SOC 11 INTRODUCTION TO SOCIAL WELFARE

5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
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.

Continued on next page.

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Foothill College • Winter Quarter 2014

Sociology

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

See also Women's Studies. 2 certificates are available: Certificate of Achievement in Sociology and Certificate of Proficiency in Sociology-Social Welfare. For information on the online program, visit www.foothillglobalaccess.org/main/aa_sociology.htm

SOC 1 INTRODUCTION TO SOCIOLOGY

5 hours lecture. (60 total hours per quarter.)
Not Repeatable.
Introduction to the field of sociology; the scientific study of human society and the contemporary world, and the interaction of individuals and groups in society. Analysis of

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www.foothill.edu
### Winter Quarter 2014 Courses

#### Sociology

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<td>ALCOHOL &amp; DRUG ABUSE</td>
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SPANISH

Language Arts  
(650) 949-7131  
www.foothill.edu/la

Courses listed with an 'S' suffix are the first half of the course. 'T' indicates the second half. The student takes two quarters to complete a quarter's work and does not receive full credit for the course until 'T' is completed. 'S' must be taken before 'T'.

SPAN 1  
ELEMENTARY SPANISH I  
5 Units
Advisory: Student may enroll in SPAN 1 or SPAN 1T, but not both, for credit. 5 hours lecture. (60 total hours per quarter.) Not Repeatable.
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.

SPAN 2  
ELEMENTARY SPANISH II  
5 Units
Prerequisite: SPAN 1 or one year of high school Spanish. 5 hours lecture. (60 total hours per quarter.) Not Repeatable.
Further 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.

SPAN 3  
ELEMENTARY SPANISH III  
5 Units
Prerequisite: SPAN 2 or two years of high school Spanish. 5 hours lecture. (60 total hours per quarter.) Not Repeatable.
Further development and practice of elementary speaking, listening, reading and writing skills in everyday language functions, with focus on greater structural accuracy and communicative competence, and with Spanish as the language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas.

SPAN 4  
INTERMEDIATE SPANISH I  
5 Units
Prerequisite: SPAN 3 or three years of high school Spanish. 5 hours lecture. (60 total hours per quarter.) Not Repeatable.
Introduction to the reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Spanish-speaking world. Review and further development of the grammatical structures of first-year Spanish with emphasis on building communicative competence and expanding vocabulary about familiar topics and idiomatic usage. Emphasis on present indicative and subjunctive. Writing and reading assignments based upon topics discussed in class.

SPAN 5  
INTERMEDIATE SPANISH II  
5 Units
Prerequisite: SPAN 4 or four years of high school Spanish. 5 hours lecture. (60 total hours per quarter.) Not Repeatable.
Further expansion of the reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Spanish-speaking world. Review and further development of the grammatical structures of first-year Spanish with emphasis on building communicative competence and expanding vocabulary about new topics, and idiomatic usage. Emphasis on past tenses and past subjunctive. Writing and reading assignments based upon topics discussed in class.

SPAN 6  
INTERMEDIATE SPANISH III  
5 Units
Prerequisite: SPAN 5. 5 hours lecture. (60 total hours per quarter.) Not Repeatable.
Extensive reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Spanish-speaking world, with emphasis on literature and art. Practice of advanced grammatical structures, and expansion of abstract vocabulary, and idiomatic usage. Writing and reading assignments based upon topics discussed in class.

SPAN 13A  
INTERMEDIATE CONVERSATION I  
4 Units
Prerequisite: SPAN 3. 4 hours lecture. (48 total hours per quarter.) Not Repeatable.
Review and development of oral and listening communication skills in the targeted functions studied in first-year Spanish with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary Spanish as well as the variation in language depending upon the topic, the setting, and the country.

SPAN 13B  
INTERMEDIATE CONVERSATION II  
4 Units
Prerequisite: SPAN 13A. 4 hours lecture. (48 total hours per quarter.) Not Repeatable.
Continuation of SPAN 13A. Review and development of oral and listening communication skills in the targeted functions studied in first-year Spanish with attention to fluency, vocabulary, idiom, and pronunciation. Emphasis on the difference between spoken and literary Spanish as well as the variation in language depending upon the topic, the setting,Continued on next page.
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 25A ADVANCED COMPOSITION & READING I 4 Units
Prerequisite: SPAN 13B.
Advisory: May be taken concurrently with SPAN 5.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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 25B ADVANCED COMPOSITION & READING II 4 Units
Prerequisite: SPAN 25A.
4 hours lecture. (48 total hours per quarter.)
Not Repeatable.
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.
Winter Quarter 2014 Courses

<table>
<thead>
<tr>
<th>Course Number</th>
<th>CRN</th>
<th>Title Activity</th>
<th>Units</th>
<th>Time</th>
<th>Days</th>
<th>Instructor</th>
<th>Location</th>
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<td>THTR 26</td>
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<td>THTR 27</td>
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<td>30490</td>
<td>PRODUCTION PROJECTS I</td>
<td>4 Units</td>
<td>LEC</td>
<td>10-11:15 AM</td>
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## Winter Quarter 2014 Courses

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<th>Location</th>
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<td>TECHNICAL THEATRE MANAGEMENT</td>
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### THTR 44B PRODUCTION PROJECTS II
**Formerly:** THTR 44X
Advisory: Course participation is determined by audition and instructor assignment; not open to students with credit in THTR 44X.

- 6 hours lecture-laboratory, 3 hours laboratory. (188 total hours per quarter.)
- Not Repeatable.
- Advanced practical work in stage directing, leadership roles, and featured performance work necessary for the full development of a theatrical production. Students take active roles in all creative and technical aspects involved in producing a full-scale public performance which consists of a compilation of short plays.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Course ID</th>
<th>Activity</th>
<th>Time</th>
<th>Days</th>
<th>Instructor</th>
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</table>

### THTR 47A INTRODUCTION TO MUSICAL THEATRE PRODUCTION
**Formerly:** THTR 47

- 18 hours laboratory. (216 total hours per quarter.)
- Not Repeatable.
- This course is designed to introduce the fundamentals of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production.

<table>
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<tr>
<th>CRN</th>
<th>Course ID</th>
<th>Activity</th>
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<th>Days</th>
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### THTR 47B INTERMEDIATE MUSIC THEATRE PRODUCTION WORKSHOP
**Formerly:** THTR 47X

- 18 hours laboratory. (216 total hours per quarter.)
- Not Repeatable.
- This course is designed to develop technical skills required at the intermediate level of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production.

<table>
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### THTR 70R INDEPENDENT STUDY IN THEATRE ARTS
3 hours per week, per unit, as determined by unit value of the contracted project or course of study; 36-144 total hours. (0 total hours per quarter.)
- Not Repeatable.
- This course of study provides an opportunity for the student to expand their studies in Theatre Arts beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

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## WINTER QUARTER 2014 COURSES

### VETERINARY TECHNOLOGY

**Biological & Health Sciences** *(650) 949-7538* [www.foothill.edu/bio/programs/vettech/](http://www.foothill.edu/bio/programs/vettech/)

There is a selective admission process required prior to enrolling in these courses. For an application, access [www.foothill.edu/bio/programs/vettech](http://www.foothill.edu/bio/programs/vettech). Selective admission process does not apply to the Veterinary Assistant Certificate courses (VT 52A, 52B, 88A, 88B).

<table>
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<tr>
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### V T 50B CURRENT TOPICS IN VETERINARY TECHNOLOGY II
1 hour lecture-laboratory. (12 total hours per quarter.) Not Repeatable.

This course provides enrichment of the core curriculum of the Veterinary Technology Program. Presenters will include veterinarians, veterinary specialists, veterinary technicians, animal care and management professionals, business professionals, and educators. A series of three four-hour lectures, lecture-demonstrations, multimedia presentations, live demonstrations, or hands-on workshops presented once monthly by the instructor or professionals in veterinary medicine, veterinary technology, or other animal health-related fields. Content consists of relevant topics related to concurrent coursework in the second quarter of the first year Veterinary Technology Program Curriculum. First year veterinary technology students are required to enroll. Not open to Non-Veterinary Technology program students.

### V T 50E CURRENT TOPICS IN VETERINARY TECHNOLOGY V
1 hour lecture-laboratory. (12 total hours per quarter.) Not Repeatable.

This course provides enrichment of the core curriculum of the Veterinary Technology Program. A series of three four-hour lectures, lecture-demonstrations, multimedia presentations, live demonstrations, or hands-on workshops presented once monthly by the instructor or professionals in veterinary medicine, veterinary technology, or other animal health-related fields. Content consists of relevant topics related to concurrent coursework in the second quarter of the second year Veterinary Technology Program Curriculum. Presenters include veterinarians, veterinary specialists, veterinary technicians, animal care and management professionals, business professionals, and educators. Second year veterinary technology students are required to enroll. Not open to Non-Veterinary Technology program students.

### V T 60 VETERINARY OFFICE PRACTICE
2 hours lecture. (24 total hours per quarter.) Not Repeatable.


### V T 61 ANIMAL DISEASES
5 Units

Advisory: Second year standing in the Veterinary Technology Program; completion of general microbiology strongly recommended.

4 hours lecture, 2 hours lecture-laboratory. (72 total hours per quarter.) Not Repeatable.

Advanced study of the common diseases of domestic animals with emphasis on the dog and cat. 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. Etiology, pathogenesis, clinical signs and clinical management of selected developmental, degenerative, nutritional, metabolic, endocrine, immune-mediated, and neoplastic diseases. Principles of vaccination, disease prevention, public health, client education, and zoonosis. Diagnostic techniques, including gross and microscopic identification of common veterinary pathogens.

Continued on next page

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VART-001-01: Clinical Internship III 3 Units
Prerequisite: Admission to the Veterinary Technology Program. 15 hours laboratory. (180 total hours per quarter.) Not Repeatable.
Off-campus practical clinical work experience for Veterinary Technology Program students in veterinary facilities supervised by licensed veterinarians and veterinary technicians. Students must assume more responsibility; and act independently with more confidence and proficiency; applying principles of critical thinking to clinical practice and troubleshooting with confidence and good judgment. Practical application of knowledge, skills, and attitudes acquired in the concurrent second year program course work. Assumes primary responsibility for radiology, clinical pathology, anesthesiology, medical and surgical nursing and common clinical procedures. This course is intended for students admitted into the Veterinary Technology Program.

VART-051-01: American Cinema 4 Units
Advisory: Not open to students with credit in F TV 15. 4 hours lecture, 1 hour laboratory. (66 total hours per quarter.) Not Repeatable. 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-002A-01: History of Film 1895-1945 4 Units
Advisory: Not open to students with credit in MDIA 2A or F TV 2A. 4 hours lecture, 1 hour laboratory. (60 total hours per quarter.) Not Repeatable. Survey of the development of motion pictures from beginning to the 1940s. Emphasis on understanding evolution of international filmmaking.

VART-002B-01: Current Trends in Film, TV & the Internet 4 Units
Advisory: Not open to students with credit in F TV 2B. 4 hours lecture, 1 hour laboratory. (60 total hours per quarter.) Not Repeatable. Critical analysis of film as an art form with emphasis on film evolution from the 1940s to the present.

VART-002C-01: Video Arts 4 Units
Advisory: Not open to students with credit in F TV 2C. 3 hours lecture, 2.5 hours lecture-laboratory. (66 total hours per quarter.) Not Repeatable. A survey of the language, technology, theory and aesthetics of the moving image as an art form. The course emphasizes an introduction to the critical analysis of the film and video. Includes weekly readings, film viewing, and discussion.

Continued on next page.
### WINTER QUARTER 2014 COURSES

**WOMEN’S STUDIES**

<table>
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<th>CRN</th>
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<th>Time</th>
<th>Instructor</th>
<th>Location</th>
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<tbody>
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<td>WMN 5</td>
<td>INTRODUCTION TO WOMEN’S STUDIES</td>
<td>4</td>
<td>01:30-03:20 PM</td>
<td>MW PLATTS</td>
<td>3401</td>
</tr>
</tbody>
</table>

**Advisory:** Eligibility for ENGL 1A or ESLL 26. 4 hours lecture. (48 total hours per quarter.)

Not Repeatable.

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.

- 30160 WMN -005.01 LEC 01:30-03:20 PM MW PLATTS 3401
- 30254 WMN -005.02W LEC TBA TBA STANDISH ONLINE

WMN -005.02W: Offered via Internet. After registering, you must refer to course descriptions at www.foothill.edu/fga/ for information on how to begin.

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Unless otherwise noted, Winter Quarter runs Jan. 6–March 28, 2014. All courses are Title 5 Degree applicable credit courses unless otherwise noted. All fee payments are due at time of registration. Instructors are not obligated to hold a seat for the student who is enrolled but does not attend the first class meeting. The course listings in this PDF were accurate as of Nov. 4, 2013. Be aware that course listing and footnote information may have changed. For the most accurate, current course listings, always access the online class schedule.