



Academic Departments and Programs



Finance

Mihaylo College of Business and Economics

DEPARTMENT CHAIR

Mark Hoven Stohs

DEPARTMENT OFFICE/WEBSITE

Steven G. Mihaylo Hall 5113

657-278-2217

www.business.fullerton.edu/finance

PROGRAMS OFFERED

Bachelor of Arts in Business

Administration

Concentrations:

Finance

Risk Management and Insurance

Joint Emphasis in Accounting and Finance

Master of Business Administration

Concentrations:

Finance

Risk Management and Insurance

FACULTY

Vipin Agrawal, Mehmet Akbulut, Ajay Bhootra, Carolyn Chang, Donald Crane, Amadeu DaSilva, Dipasri Ghosh, John Erickson, Joseph Greco, Yi Jiang, Michael LaCour-Little, Tsong-Yue Lai, Yuming Li, Zhenguo Lin, Yue Liu, Weili Lu, Michael Milligan, Thanh Nguyen, Sojung Park, Yun Park, Mark Hoven Stohs, Yingdi Wang, Xiaoying Xie, Jing Yang

INTRODUCTION

In choosing their coursework, students are advised (but not required) to choose one of the five areas (advisory tracks) of study within the finance concentration. The corporate/international financial management track is designed to provide entry-level skills for students interested in the financial management of a non-financial firm. The international component of this track is designed for students who are interested in international corporate financial management. The financial institutions track may lead to employment in banks or savings and loan associations. The investment/financial planning track is designed for students interested in positions with brokerage firms or financial planning firms. The insurance and financial services track is designed for students interested in positions with insurance firms. The real estate professions track is designed for students interested in careers in commercial brokerage, property management, property development and real estate finance. Students may also combine courses from different advisory tracks to meet a specialized educational objective.

LEARNING GOALS AND STUDENT LEARNING OUTCOMES

The following goals and learning outcomes have been established for students pursuing a degree in business administration:

Problem solving and critical thinking skills

- Effectively use quantitative/analytical, problem-solving and critical thinking skills in a business situation

Interpersonal relations

- Motivate self and others to achieve group and organizational goals
- Diagnose and resolve conflict in group and organizational settings

Ethical awareness

- Demonstrate an awareness of ethical issues and responsibilities

Functional knowledge

- Understand and appreciate the principles and roles of each of the major business disciplines and the interrelationships of these disciplines within a strategic framework

Multicultural awareness

- Appreciate diversity and understand how workforce and market diversity challenge, benefit and influence the activities of the organization

Information technology skills

- Use information technology to support business analysis and operations

Global awareness

- Understand the impact of the global economy and business environment

Economic and legal environment knowledge

- Demonstrate knowledge about the economic and legal environments in which business operates

Communications skills

- Demonstrate knowledge and skills to communicate effectively about business issues using written and oral communications

BACHELOR OF ARTS IN BUSINESS ADMINISTRATION

See “Business Administration, Finance Concentration; Risk Management and Insurance Concentration”

MASTER OF BUSINESS ADMINISTRATION

See “Business Administration, MBA; Finance Concentration; Risk Management and Insurance Concentration”

FINANCE COURSES

Courses are designated as FIN in the class schedule.

310 Personal Financial Management (3)

Financial problems of the household in allocating resources and planning expenditures. Housing, insurance, installment buying, medical care, savings and investments. Special financial planning problems faced by minorities and women. May not be used to fulfill the concentration requirement in finance.

320 Business Finance (3)

Prerequisite: Accounting 201A. Corequisites: InfoSys/DecSci 361A and Business Admin 301. Financing business enterprises; financial planning and control; analysis of alternative sources and uses of combinations of short-, intermediate- and long-term debt and equity. Cost of capital and capital investment decisions; capital budgeting analysis and valuation; working capital management; corporate financial decisions in an international environment.

331 Working Capital Management and Computer Applications (3)

Prerequisite: FIN 320. Analysis of working capital management and policy, liquidity measurement, sources of financing for periods of cash deficits; management of accounts receivable and inventories; financial forecasting; and short-term financing.

332 Theory of Corporate Finance (3)

Prerequisite: FIN 320. Risk and return analysis. Introduction to asset pricing models for valuing debt and equity. Analysis of capital budgeting, capital structure and dividend theories, long-term financial planning and firm valuation.

335 Financial Analysis for Investors and Lenders (3)

Prerequisite: FIN 320. Interpretation of financial statements from the perspective of the financial analyst and creditor. Economic meaning of financial statement data for the purpose of evaluating a company's financial performance.

340 Introduction to Investments (3)

Prerequisite: FIN 320. Institutional characteristics of securities markets, security valuation and trading methods, fundamental and technical analysis, selection and management of securities, role of the capital asset pricing model in investing, options and futures markets, portfolio analysis and mutual funds.

342 Capital and Money Markets (3)

Prerequisite: FIN 320. Capital and money markets in the American and international economies; markets for new corporate and government issues; secondary markets; use of derivative securities for hedging; factors influencing yields and security prices.

351 Introduction to Real Estate (3)

Prerequisite: FIN 320. Real estate principles, practices and investment decisions. Equity investment, finance, legal aspects, practices, principles, property development, real estate administration in the public sector, real estate market analysis, and valuation.

352 Real Estate Finance (3)

Prerequisite: FIN 351. Financial institutions and real estate credit. Sources and uses of capital (funds) in financing real estate transactions. Money and capital markets and their effect on credit availability. Mortgage mechanics and the workings of primary and secondary markets.

353 Real Estate Valuation (3)

Prerequisite: FIN 351. Comprehensive coverage of the basic concepts and principles of real estate valuation. Use of the three approaches to valuation for the appraisal of residential and income-producing properties. Role of valuation in real estate investment. Government regulation of appraisers.

355 Real Estate Investment Analysis (3)

Prerequisite: FIN 351 or consent of instructor. Alternative analytical techniques in evaluating real estate investments. Tax aspects, measurement of investment returns, application of computer models to investment decisions. Lecture, discussion and case analysis of major investment types – raw land, apartment houses, commercial and industrial uses.

360 Principles of Insurance (3)

Prerequisite: FIN 320. Analysis of the risk management process, introduction to property and liability insurance, employee benefits and financial planning. Overview of the insurance industry and insurance problems.

370 International Business Finance (3)

Prerequisite: FIN 320. Financing problems of the multinational business. International financial environment, taxation of foreign income, the cost of capital in international capital and money markets, problems of risk in foreign investments and financial techniques for the operation of the multinational firm. One or more sections offered online.

371 Export-Import Financing (3)

Prerequisite: FIN 320. Institutional arrangements, methods and techniques used to finance international trade. Government and financial institution services. Risk-return aspects of international sales, insurance needs, the use of letters of credit, international factoring, accounts receivable insurance and other financing techniques. Review of required export-import documentation.

373 Asia-Pacific Financial and Security Markets (3)

Prerequisite: FIN 320. Overview of financial markets in Japan, Korea, Taiwan, China, Hong Kong, Singapore and Southeast Asia. Historical perspectives, regulations, more recent liberalization and internationalization and institutional technical aspects of the stock, bond and other financial markets.

410 Theory and Practice of Personal Financial Planning (3)

Prerequisite: FIN 320. Developing, implementing and monitoring comprehensive personal financial plans. Risk management, investments, taxation, retirement and estate planning, professional practices.

411 Retirement and Estate Planning (3)

Prerequisite: FIN 320. Development of retirement objectives, needs and financial condition. Forecasting retirement income from employer based retirement plans, IRAs, insurance policies, social security, and investment programs. Medicare, medical, group life and health benefits after retirement. Property titling, wills and transfers in contemplation of death.

425 Commercial Bank and Financial Institution Management (3)

Prerequisite: FIN 320. Solution of financial institution problems. Major financial intermediaries and the decision-making problems they face. Regulation and its effect on management operations. Group problems and case studies.

432 Financial Forecasting and Budgeting (3)

Prerequisite: FIN 320. Forecasting in financial management; profit planning and control process; goals, technical procedures, and effects of budgeting; mechanics of forecasting and budgeting, follow-up and control.

433 Problems in Business Finance (3)

Prerequisite: FIN 332. Case studies. Group problems and case studies relating to estimation of funds requirements, long-term financial planning, evaluation of cash flows, financing acquisitions and mergers, capital budgeting and cost of capital. Team-building, leadership and computer-assisted presentation skills. Not applicable for graduate degree credit.

435 Capital Markets and Fixed Income Analysis (3)

Prerequisite: FIN 320 or 517. Corequisite: FIN 340 or 541. Fixed income markets, including the price dynamics and risk profiles of various fixed-income securities, derivatives, yields, duration, credit analysis of bonds, portfolio management strategies, calculating performance and identifying factors driving fixed income returns.

442 Advanced Investment Analysis (3)

Prerequisites: FIN 340 and InfoSys/DecSci 361A. Securities markets and company analysis, security valuation models, the CAPM and the APT, option pricing and portfolio models. Practical application of investment theory and recent literature. Students may not receive credit for both FIN 442 and 541.

444 Options and Futures (3)

Prerequisite: FIN 340. Put and call options, option pricing theory and models. Financial futures pricing, hedging strategies and models. Institutional characteristics of futures trading. Options and futures on stock indices. Options on futures, theoretical relationship between options and futures.

454 Real Estate Market Analysis (3)

Prerequisite: FIN 351. Factors and influences of urban growth and development. Economic factors and real estate supply and demand. Location theory and urban growth patterns. Public policy as a factor in real estate development. Analysis of real estate markets.

461 Business Property and Liability Risk Management (3)

Prerequisite: FIN 360. Duties and functions of a corporate risk manager, the major commercial property liability lines, including business income, general liability, commercial auto workers compensation, business owner insurance and operation of property liability insurers.

462 Life and Health Insurance (3)

Prerequisite: FIN 360. Analysis of various types of life annuity and health insurance contracts, major employee benefit plans adopted by corporations and the organization and management of life and health insurance companies.

463 Professional Ethics, Corporate Compliance and Regulation (3)

Prerequisites: FIN 320 and Management 246. How organizations can best assess and manage their exposure to legal, regulatory and ethical issues through corporate compliance programs.

464 Insurance Marketing and Distribution (3)

Prerequisites: FIN 320 and Marketing 351. Overview of practices and procedures involved in insurance marketing and distribution; Analyzes insurance marketing environment, marketing strategies and product promotion; introduction to insurance distribution channels and sales force management.

495 Internship (1-3)

Prerequisites: FIN 332, a concentration in finance, consent of department internship adviser, junior standing, 2.5 GPA and one semester in residence at the university. Also open to international business majors. Planned and supervised work experience. May be repeated for credit up to a total of six units. Credit/No Credit only.

499 Independent Study (1-3)

Prerequisites: FIN 332, 340 and consent of the department chair. Open to undergraduate students desiring to pursue directed independent inquiry. May be repeated for credit. Not open to students on academic probation.

517 Managerial Finance (3)

Prerequisite: Accounting 510 and classified MCBE status. Modern theory and practice of financial management. Net present value and the time value of money. Basic principles of risk and return, from an asset pricing perspective, as applied to the valuation of debt and equity. Capital budgeting and forecasting. Capital structure and dividend theory. Firm valuation from a value-based management and corporate governance perspective.

523 Seminar in Corporate Financial Management (3)

Prerequisites: FIN 517 or equivalent and classified MCBE status. Analysis of financial decision-making process through case studies and seminar presentations. Current financial theory and models. International applications.

528 Financial Economics (3)

Prerequisite: FIN 517. Valuation of corporate liabilities and other securities. Economic decision-making under uncertainty and asset pricing theories are analyzed rigorously. Other topics may include optimal capital structure, the market for corporate control, or macroeconomic aspects of finance. (Same as ECON 528)

533 Seminar in Financial Administration (3)

Prerequisites: FIN 517 and classified MCBE status. Optimal financing and asset administration; advanced techniques of capital budgeting; application of analytical methods to the administration of the finance function of the business firm.

541 Seminar in Investment Management (3)

Prerequisites: FIN 517 or equivalent and classified MCBE status. Problems of investment and portfolio management; concepts of risk evaluation and investment criteria; analysis of interest rate movements; investment valuation and timing; regulation and administrative problems of the industry. Students may not receive credit for both FIN 442 and 541.

543 Entrepreneurial Finance (3)

Prerequisites: FIN 517, Accounting 510 and Accounting 511. Financing a new/small firm, including forecasting the firm's investment needs, raising short-term funding and banking relationships, managing working capital, making fixed asset investments and managing risk.

551 Seminar in Real Estate Investment (3)

Prerequisites: FIN 517 or equivalent and classified MCBE status. Problems of real estate investment; concepts of evaluation and investment criteria; analysis of real property values; real estate development and financing. Case studies.

560 Corporate Risk Management and Insurance Seminar (3)

Prerequisite: FIN 517. Considers how risks are managed with diversification, capital structure, loss control, corporate governance, and how they are financed with commercial insurance contracts and other alternatives. Analyzes markets and instruments created to enable corporations to manage downside risks.

562 Enterprise Risk Management (ERM) (3)

Prerequisite: FIN 517. ERM framework with the integration of pure, financial, strategic and operational risks. Discusses seven building blocks for developing an ERM program. Legal and regulatory environment, technical tools and future prediction on ERM.

570 Seminar in International Financial Management (3)

Prerequisites: FIN 517 or equivalent and classified MCBE status. Financial problems of the multinational firm. International financing instruments, capital investment decisions and constraints on the profitability of multinational businesses.

597 Project (3)

Prerequisites: FIN 517 or equivalent and classified MCBE status, consent of instructor and approval by Department Chair. Directed independent inquiry. Not open to students on academic probation.

599 Independent Graduate Research (1-3)

Prerequisites: FIN 517 or equivalent and classified MCBE status, consent of instructor and approval by Department Chair and Associate Dean. May be repeated for credit. Not open to students on academic probation.



Geography

College of Humanities and Social Sciences

INTRODUCTION

Geography is the study of the earth as the home of humanity. Geography provides a broad understanding of the processes that unite people, places and environments. Geographers explore the diverse regions of the contemporary world in pursuit of global understanding. They tie together the study of human spatial organizations and cultural landscapes with an in-depth investigation of the earth's landforms, climates and vegetation. Their methods range from fieldwork in foreign areas to advanced information technologies like computerized geographic information systems and remote sensing. Geography graduates find rewarding careers in environmental analysis and planning, business, government agencies and education.

LEARNING GOALS AND STUDENT LEARNING OUTCOMES

The following learning goals and learning outcomes have been established for students pursuing a degree in Geography:

Personal, civic, educational and career

- Students' interests reflect the diversity of the discipline
- Students prepared to thrive in a world of shrinking distances and global economies
- Students have access to courses that prepare them for graduate school and careers in planning, environmental analysis, education and geospatial technologies

Intellectual inquiry and effective communication

- Understand the patterns and processes of human and physical geography including the interaction between humanity and the earth's environments
- Appreciate the values of intellectual inquiry involving both synthesis and analysis
- Develop skills of observation and measurement needed for geographic inquiry
- Communicate with maps as well as text and graphics

Technology

- Solve problems using advanced Geographic Information Systems and remote sensing technology
- Understand the role of the Internet for accessing geographic information

Multi-cultural environments

- Develop a strong global perspective
- Understand the diversity of the earth's peoples and environments

Collaborative experiences

- Experience substantial involvement with small group learning
- Interact with faculty outside of classroom

DEPARTMENT CHAIR

John Carroll

DEPARTMENT OFFICE/WEBSITE

Humanities 420A

657-278-3161

<http://geography.fullerton.edu>

PROGRAMS OFFERED

Bachelor of Arts in Geography

Minor in Geography

Master of Arts in Geography

FACULTY

John Carroll, Mark Drayse, James Miller, Jon Taylor, Robert Voeks, Jindong Wu, Lei Xu, Robert Young

BACHELOR OF ARTS IN GEOGRAPHY (120 UNITS)

The Bachelor of Arts in Geography requires at least 39 units in the major – of which at least 21 must be in upper-division courses – plus General Education, all-university requirements and free electives. Students may satisfy some requirements with equivalent coursework taken at other institutions. Courses toward the major must be passed with a “C” (2.0) or better. Students are encouraged to take additional geography courses beyond the minimum required for the major.

Credential Information

The bachelor’s degree in geography may be effectively combined with subject matter studies necessary for either the multiple subject teaching credential (K-8) or single subject credential (7-12) in social studies. Undergraduates are encouraged to work with the Center for Careers in Teaching (657-278-7130) as early as possible in their academic careers to plan efficient course selections for general education, the major and electives. With careful planning, it may be possible to enter the credential program in the senior year of the bachelor’s degree. Postgraduate students should contact the Admission to Teacher Education office in the College of Education (657-278-3352) to obtain information on attending an overview presentation.

Core Courses (15 units)

GEOG 100 Global Geography (3)
GEOG 110 Introduction to the Natural Environment (3)
GEOG 160 Human Geography (3)
GEOG 281 Map Making with GIS (3)
Three additional units from courses numbered 280 to 289

Upper-Division Courses

Environmental Geography (3 units)

GEOG 329 Cities and Nature (3)
GEOG 350 Nature and Society (3)

Human Geography (3 units)

GEOG 357 Spatial Behavior (3)
GEOG 360 Geography of the World’s Economies (3)
GEOG 370 Cities and Suburbs (3)

GEOG 375 Population Geography (3)

Physical Geography (3 units)

GEOG 323 Weather and Climate (3)
GEOG 325 Natural Vegetation (3)

Regional Geography (3 units)

Select from courses numbered 330 to 349

Advanced Geography (6 units)

Select from courses numbered 400 to 489

Geography Elective (3 units)

Select lower- or upper-division courses not used to satisfy any other requirement

Upper-Division Writing Requirement (3 units)

ENGL 301 Advanced College Writing (3)
ENGL 360 Scientific and Technical Writing (3)

Capstone Requirement

Prior to graduation, each student must demonstrate a critical understanding of the major processes that shape the earth’s landscapes, regions and places, and that influence human interaction with the earth’s cultural and physical environments. This requirement will be met through satisfactory completion of one of the following capstone courses:

GEOG 422, 425, 426, 450, 452, 475, 478, 488

Units earned from the capstone course can be used to satisfy the Advanced Geography or Geography Elective requirements of the Geography Major.

EMPHASIS IN ENVIRONMENTAL ANALYSIS (39 UNITS)

Geography graduates often find employment in such areas as environmental planning and related technical fields. For this reason, an optional upper-division emphasis in environmental analysis is available within the major.

Core Courses (15 units)

GEOG 100 Global Geography (3)
GEOG 110 Introduction to the Natural Environment (3)
GEOG 160 Human Geography (3)
GEOG 281 Map Making with GIS (3)
Three additional units from courses numbered 280 to 289

Upper-Division Courses

Environmental Geography (3 units)

GEOG 350 Nature and Society (3)

Human Geography (3 units)

GEOG 357 Spatial Behavior (3)
GEOG 360 Geography of the World’s Economies (3)
GEOG 370 Cities and Suburbs (3)
GEOG 375 Population Geography (3)

Physical Geography (6 units)

GEOG 312 Geomorphology (3)
GEOG 323 Weather and Climate (3)
GEOG 325 Natural Vegetation (3)
GEOG 329 Cities and Nature

Regional Geography (3 units)

Three units from geography courses numbered 330 to 347

Advanced Geography (6 units)

GEOG 422 Global Climate Change (3)

GEOG 425 Tropical Rainforests (3)

GEOG 426 The Coastal Environment (3)

GEOG 482 Environmental Impact Assessment (3)

GEOG 488 Land Use Analysis (3)

Upper-Division Writing Requirement (3 units)

ENGL 301 Advanced College Writing (3)

ENGL 360 Scientific and Technical Writing (3)

Capstone Requirement

Prior to graduation, each student must demonstrate a critical understanding of the major processes that shape the earth's landscapes, regions and place, and that influence human interaction with the earth's cultural and physical environments. This requirement will be met through satisfactory completion of one of the following capstone courses:

GEOG 422, 425, 426, 450, 452, 488

Units earned from the capstone course can be used to satisfy the Advanced Geography requirement of the Emphasis in Environmental Analysis.

MINOR IN GEOGRAPHY (21 UNITS)

The minor in geography serves students seeking a geographic perspective to complement their major. The study plan includes GEOG 100 and three units from the following: 110, 120, 160 or 281; and a minimum of 12 units of upper-division work. All courses counted toward the minor must be passed with a "C" (2.0) or better. Faculty advisers are available to help students structure their minor in geography.

MASTER OF ARTS IN GEOGRAPHY (30 UNITS)

This program provides advanced study in human and physical geography with an emphasis on theory and research. Graduates are prepared in the application of interpretive and analytical concepts and techniques to a broad spectrum of geographic situations. Such study directly serves those whose careers involve urban, regional, and environmental planning and geographic education. Geographic perspectives and methods are highly applicable to a wide range of careers in business, industry and government.

Admission and Conditional Classification

The department requires a grade-point average of at least 3.0 in the last 60 semester units attempted and a 3.0 grade-point average in all geography courses. Students who have no, or a limited, background in geography will be expected to make up the deficit by taking appropriate coursework in consultation with the departmental graduate adviser.

All students are required to demonstrate competency in each of geography's four main subfields: human, physical, regional and technical. Competency is normally demonstrated by completion of at least 18 units at the upper-division or graduate level with a 3.0 grade-point average.

Graduate Standing – Classified

After completing all prerequisites and removing deficiencies, the student must develop an approved study plan in consultation with a personal faculty adviser and the graduate program adviser in order to be classified.

All students must complete six units of upper-division technical courses. Three units are prerequisite to classified standing. If the remaining three units were not taken as undergraduate work, they may be included in the study plan.

Required Courses

GEOG 500 Seminar in Geographic Research (3)

GEOG 520 Seminar in Physical Geography (3)

GEOG 550 Seminar in Human Geography (3)

GEOG 599 Independent Graduate Research (3)

One additional 500-level geography course (3)

Electives (12-15 units)

Senior-level or graduate coursework in geography (15 units unless approved for thesis; may include additional GEOG 500-level courses; up to six units from related fields).

Thesis or Comprehensive Exam (0-3 units)

GEOG 598 Thesis (3) (department approval required)

Students must follow one of two plans – Plan A, requiring a comprehensive examination; or Plan B, requiring a thesis.

Plan A requires the development of a specific field of interest and a written, three-part comprehensive exam testing knowledge in human geography, physical geography and the student's specified area of interest. The examination may be repeated only once. Plan B requires the development of a specific field of interest, a written thesis and a subsequent oral defense.

All students will follow Plan A unless approval for the thesis option is granted. In order to follow Plan B, the thesis option, students must have the written consent of their thesis supervisor and all members of a thesis committee. Permission to write a thesis may be granted only to students who have (1) achieved a 3.25 grade-point average after 15 units of upper-division and graduate coursework and (2) demonstrated proficiency in research and writing skills.

For further details or advisement, communicate with the Department of Geography graduate program adviser.

GEOGRAPHY COURSES

Courses are designated as GEOG in the class schedule.

100 Global Geography (3)

Introduction to world's geographical regions. Cultural patterns and their evolution in diverse physical environments. One or more sections offered online.

110 Introduction to the Natural Environment (3)

Prerequisite: completion of General Education (G.E.) Category B1 or B4. Introduction to the major components of the physical environment, including landforms, climate, natural vegetation and soils. One or more sections offered online.

120 Global Environmental Problems (3)

Prerequisite: completion of G.E. Category B.1. Geographical analysis of the Earth's principal environmental problems. Subjects include population growth, agriculture and pesticides, climate change, forestry and fishing, energy, endangered species and appropriate development. One or more sections offered online.

160 Human Geography (3)

Prerequisite: completion of G.E. Category D.1. An Introduction to Human Geography. Understanding the regional distribution of language, religion, population, migration and settlement patterns, political organization, technology, methods of livelihood over the earth. One or more sections offered online.

220 Introduction to Gender and Social Space (3)

(Same as WMST 220)

281 Map Making with Geographic Information Systems (3)

Principles and practice of effective map making using computerized geographic information systems technology. (2 hours lecture, 2 hours laboratory)

283 Introduction to Spatial Data (3)

Introduction to the variety of evidence used in geographic analysis and the sources and techniques for acquiring geographic evidence.

300A Geographical Thought (3)

Prerequisites: GEOG 100, 110, 160. Introduction to geographical thought through readings, discussion and writing assignments. Environmental, regional and spatial tradition in geography, and current themes in geographical research. Meets the upper-division writing requirements for geography majors.

300B Geographic Methods (3)

Prerequisite: GEOG 300A. Quantitative and qualitative methods used in geographic research, including statistical techniques such as descriptive statistics, probability, sampling, inferential statistics, correlation and regression, and qualitative methods such as interview and surveys.

312 Geomorphology (3)

Prerequisites: GEOG 110, Geology 101. Landforms and the processes responsible for their evolution.

323 Weather and Climate (3)

Prerequisite: GEOG 110. Atmospheric elements and controls, fronts, severe weather and climatic classification systems.

325 Natural Vegetation (3)

Geography of the globe's natural vegetation associations. Role of plate tectonics, climate, soils, fire and humans as agents of landscape-level vegetation change.

328 Global Change and Environmental Systems (3)

Prerequisite: completion of G.E. category B.1 or B.4. Introduction to the Earth's environment in the context of global change. Interdisciplinary discussion of the nature, causes and consequences of the natural and human aspects of global environmental change. One or more sections offered online.

329 Cities and Nature (3)

Prerequisites: completion of G.E. Category B.1 or B.4. Overview of the impact of urbanization on landforms, climate, vegetation, and animals. Planning implications and case studies.

330 California (3)

Landscapes of California, their environmental characteristics, development patterns and current problems. One or more sections offered online.

332 United States and Canada (3)

Prerequisite: completion of G.E. Category D.1. United States and Canada. Interrelated physical and cultural features that give geographic personality to the regions.

333 Latin America (3)

Prerequisite: completion of G.E. Category D.1. Mexico, Central America, the Caribbean and South America. Explores the regions' physical and cultural landscapes. Emphasizes nature-society problems.

336 Europe (3)

Basic physical and human lineaments of Europe. Elements that distinguish and give character to its major regional divisions.

340 Asia (3)

Prerequisite: completion of the G.E. Category D.1. Physical, human and regional geography of Asia, from Pakistan and India through Southeast Asia and the Malay Archipelago to China, Japan and Korea. One or more sections offered on line.

342 The Middle East (3)

Prerequisite: completion of the G.E. Category D.1. Geography of the Middle East from North Africa to Central Asia, with emphasis on the region's physical, cultural, historical, economic, and political geography and contemporary issues facing the region.

344 Africa (3)

Physical, human and regional geography of Africa. Saharan borderlands, East Africa and Southern Africa.

345 China (3)

Prerequisite: completion of G.E. Category D.1. China's spatial organization, emphasizing spatial patterns of population, migration, regional politics and economies; and China's many types of physical and cultural environments.

350 Nature and Society (3)

Prerequisite: completion of G.E. Category D.1. Interface between human systems and natural systems. Factors affecting human interaction with the earth, including environmental ethics, public policy and technology.

352 The National Parks (3)

The park system and its evolution as related to conservation, preservation and recreational land use. Cultural heritage and physical environment.

353 Geography of Illegal Drugs (3)

Prerequisite: completion of G.E. Category D.1 and junior or senior standing. Global patterns of illegal drug production and use, including agricultural aspects, trafficking, consumption patterns, political economy, laws and politics, drug tourism, environmental aspects and related issues. Focuses on case studies around the world. One or more sections offered online.

355 Global Cuisine (3)

International dimensions of food and wine traditions in the cultural landscape. Foods and drinks that are wild, tabooed, medicinal, gendered and erotic. Migrant cuisines from Mexico, Europe, Africa, Asia and the Middle East.

357 Spatial Behavior (3)

Geographic approach to perception and behavior in local and global spatial settings.

360 Geography of the World's Economies (3)

Geographic perspectives on the global production of goods and services and their distribution to consumers. Key geographic issues in uneven development, international trade, investment patterns, and the spatial integration of local and regional economies.

370 Cities and Suburbs (3)

American metropolitan systems and city-region linkages. Theories and spatial models of social and economic patterns within cities and suburbs; planning implications of these locational patterns.

375 Population Geography (3)

Prerequisites: GEOG 160 and junior standing. Theories, models, concepts and facts in the field of population geography, growth and distribution, with an emphasis on birth, death and migration processes.

422 Global Climate Change (3)

Prerequisite: GEOG 323. Physical factors that produce climatic patterns and regional impacts of climate change.

424 Desert Landscapes (3)

Prerequisite: GEOG 110. Desert landscapes, including climate, geomorphology, vegetation, natural history, settlement and unique urban planning challenges. The desert as "place" in geographic literature. Focuses on North American deserts. A field trip is required.

425 Tropical Rainforests (3)

Prerequisites: GEOG 110 and 325 or equivalent. Discussion/seminar examining the geography, ecology and human use of tropical rainforests. Causes and consequences of deforestation, sustainable development and preservation.

426 The Coastal Environment (3)

Prerequisites: GEOG 110 and one upper-division physical geography course. An overview of coastal geomorphology, climatology, and plant geography with an emphasis on Southern California. Human interaction, modification, and management of those systems.

450 Human Response to Environmental Hazards (3)

Prerequisites: GEOG 110 and at least one 300-level geography course; GEOG 350 preferred. Issues involved as humans endeavor to minimize the impact of hazards in the environment. Importance of cognition, perception, communication, mitigation and preparedness as societies cope with hazards posed by the natural world and human action.

452 Ecotourism (3)

Evolution and distribution of nature-based tourism. Role of ecotourism in regional development and environmental conservation. Sociocultural impacts in less developed countries.

475 Interpretation of Urban Landscapes (3)

Prerequisites: GEOG 357 or 370 and consent of instructor. Geographic view of the city as a landscape composite of structure, space, place and experience. Emphasizes the European and North American city.

478 Urban Planning Principles (3)

Prerequisite: GEOG 370 or POSC 320. Seminar/discussion on conceptual themes and legal foundations of American urban planning. Policy areas associated with urbanization and suburbanization processes: land use, economic development, redevelopment, housing systems, neighborhood dynamics and growth management. (Same as Political Science 478)

481 Geographic Information Systems: Introduction (3)

Methods and applications of computer-assisted mapping and geographic information systems. (2 hours discussion, 3 hours lab)

482 Environmental Impact Assessment (3)

Prerequisites: GEOG 350, 478 or equivalent. Techniques relevant to environmental impact assessment in accord with CEQA (state) and NEPA (federal) regulations. Systematic evaluation of major environmental impact topics. Individual and small team activities.

483 Mountain Field Geography (3)

Prerequisite: GEOG 119, 281. Summer field study of the physical and environmental geography of mountain systems in the West. Alpine/subalpine glacial action, weather and climate, biogeography, soils, human impacts and sustainability.

484 Urban Planning Methods (3)

Prerequisite: GEOG 478 or POSC 478. Seminar and Practicum on methods in urban planning. Analytical techniques and basic data sources. Population forecasting, housing surveys, economic development, fiscal impacts and area revitalization. Individual and team projects. (Same as Political Science 484)

485 Geographic Information Systems: Principles and Applications (3)

Prerequisite: GEOG 481 or equivalent. Integrated computer-assisted methods for handling spatial data, including database design, data conversion and updating, information retrieval, analysis, modeling and mapping. Instructional fee.

486 Environmental Remote Sensing (3)

Prerequisite: MATH 110. Fundamentals of remote sensing science and digital image processing. Remote sensing principles and the processing and interpretation of remotely sensed data using image processing techniques and software.

488 Land Use Analysis (3)

Prerequisites: junior, senior or graduate standing and consent of instructor. Urban and rural land use and settlement; geographic field problems. Application of geographic techniques and tools to local field studies.

495 Internship in Applied Geography (1-3)

Students work specified number of hours in appropriate public or private organizations under the supervision of their staff and as coordinated by departmental faculty. Interns meet with instructor by arrangement. May be repeated for a maximum of three units of credit.

499 Independent Study (1-3)

Prerequisite: senior standing. Consent of instructor under whom study will be taken required before enrolling. May be repeated for a maximum of six units of credit.

500 Seminar in Geographic Research (3)

Prerequisites: graduate standing and consent of instructor. A required seminar to be taken prior to the development of a thesis.

520 Seminar in Physical Geography (3)

Prerequisite: graduate standing. Research in physical geography: methods and contemporary themes. Case studies in climatology, geomorphology and plant geography.

530T Seminar: Selected Topics in Geography (3)

Prerequisite: graduate standing. Various topics selected from any of the subfields of geography. The topic chosen and a general outline of the seminar are circulated prior to registration. May be repeated for credit.

550 Seminar in Human Geography (3)

Prerequisite: graduate standing. Survey of methodology and case studies, including: experiential environments; rural landscapes; urban, social and economic structure; geography and public policy; and Third World development. Meets the graduate level writing requirement.

597 Project (3)

Prerequisites: GEOG 500 and consent of adviser.

598 Thesis (3)

Prerequisites: completion of GEOG 500, advancement to candidacy and consent of instructor.

599 Independent Graduate Research (1-3)

Open to graduate students by consent of instructor. May be repeated for credit.

Geological Science

College of Natural Sciences and Mathematics

DEPARTMENT CHAIR

David Bowman

DEPARTMENT OFFICE/WEBSITE

McCarthy Hall 254

657-278-3882

<http://geology.fullerton.edu>

PROGRAMS OFFERED

Bachelor of Science in Geology

Bachelor of Arts in Earth Science

Minor in Geology

Master of Science in Geology

Emphasis in Geochemistry

(see Master of Science in Chemistry)

FACULTY

Phillip A. Armstrong, Nicole Bonuso,
David Bowman, Brandon Browne, Ga-
len R. Carlson, Diane Clemens-Knott,
John H. Foster, Matthew E. Kirby, Tara
Kneeshaw, Jeffrey Knott, W. Richard
Laton, Brady Rhodes, Adam D. Woods

INTRODUCTION

Geological Sciences is the study of Earth through time, including its physical nature, chemical composition and dynamics, as well as its origin and evolution. In addition to the quest for understanding the way Earth works and its relation to the solar system, Earth scientists are involved in the search for energy, mineral and water resources, the evaluation and remediation of environmental hazards, and the prevention and/or prediction of natural disasters such as earthquakes, volcanic eruptions, landslides, coastal erosion and floods. Earth scientists are employed by private industry, (primarily by engineering, environmental, petroleum and mining companies), government agencies, educational institutions and research centers.

The B.S., B.A. and M.S. requirements are designed to help students develop an appreciation and understanding of Earth, as well as prepare them for: (1) employment in industry or government; (2) teaching at the elementary, high school and community college level; and (3) further graduate studies in the geological sciences. Over 30 300-, 400- and 500-level electives are offered on a regular schedule, enabling students to design individual study plans that satisfy their personal educational goals.

LEARNING GOALS AND STUDENT LEARNING OUTCOMES

The following goals and learning outcomes have been established for students pursuing a bachelor's degree in geological sciences:

Skills, concepts and processes

- Describe, classify and interpret geologic field data and interpret the geologic history of an area by integrating all types of field data
- Read, interpret, and construct geologic maps, cross sections and block diagrams and use such diagrams to visualize geologic relations in the four dimensions of space and time
- Understand geologic time, explain the geologic time scale and its scientific basis, recount the milestone events in Earth history, and understand the basics of common dating methods

Integrative approach to Earth Science problems

- Apply physics, chemistry and biology to the understanding of Earth systems and cycles, including plate tectonics and the rock cycle, the water cycle, and the life cycle and evolution
- Understand the role of geology in everyday life, appreciate the extent of human impact on Earth systems and environments, and understand the processes that create natural hazards, and the strategies that minimize their impact on society

Scientific method

- Perform independent geological research by applying the scientific method, identify and locate existing geologic information, and communicate data and interpretations orally and in writing using appropriate technology

BACHELOR OF SCIENCE IN GEOLOGY (120 UNITS)

The Bachelor of Science in Geology requires 48 units in the major. Students must have a "C" (2.0) or better in all geological sciences courses applied towards the requirement; in addition, students must have a 2.0 average in required courses in related fields. Proficiency in English composition is required.

Undergraduate Thesis (3 units)

In this capstone experience, majors work one-on-one with a faculty adviser on a research project. Students are encouraged to begin research during their junior year. GEOL 498 satisfies the university's upper-division writing requirement.

Minimum Course Requirements for the Major

GEOL 101 Physical Geology (3)
OR GEOL 110T Topics in Earth Science (4)
OR GEOL 140 Earth's Atmosphere and Oceans (3)

GEOL 101L Physical Geology Lab (1)

GEOL 201 Earth History (3)

GEOL 303A Mineralogy and Introduction to Petrology (4)

GEOL 303B Igneous and Metamorphic Petrology (4)

GEOL 321 Sedimentation and Stratigraphy (4)

GEOL 335 Hydrology and Surface Processes (3)

GEOL 360 Structural Geology (4)

GEOL 380 Geologic Field Techniques (3)

GEOL 456 Geophysics (3)

OR GEOL 406 Geochemistry (3)

GEOL 481A Geology Field Camp I (4)

GEOL 498 Undergraduate Thesis (1-3)

Upper-Division Geological Sciences Electives (8-9 units)

Electives should be selected in consultation with an undergraduate adviser and/or the student's thesis adviser. No more than 3 units from any combination of GEOL 493, 495, 496L and 499L can be counted toward meeting this eight- to nine-unit requirement.

Note: GEOL 310T is not accepted as credit toward meeting requirements for the major.

Related Fields (30 units minimum)

At least one of the related field's tracks must include a second-semester lab course. If the selected related field's courses total less than 30 units, additional units must be taken from other science-math-engineering departments (see list below). Courses not included on the list must be approved in writing by an undergraduate adviser.

BIOL 101 Elements of Biology (3)

OR BIOL 171 Evolution and Biodiversity (5)

OR a life science course from another institution that is acceptable to CSUF and demonstrates treatment of whole-organism biology and concepts of evolution and ecology.

CHEM 120A and 120B General Chemistry (5,5)

OR CHEM 120A General Chemistry (5)

AND CHEM 125 General Chemistry for Engineers (3)

MATH 150A and 150B Calculus (4,4)

OR MATH 130 A Short Course in Calculus (4)

AND MATH 337 Introduction to Experimental Design
Statistics in Laboratory Sciences (3)

OR MATH 338 Statistics Applied to Natural Sciences (4)

PHYS 225, 225L Fundamental Physics - Mechanics (3,1)

AND PHYS 226 Fundamental Physics - Electricity and
Magnetism (3)

OR PHYS 211, 211L, 212 Elementary Physics (3,1,3),
with consent of adviser

*One additional semester course selected with approval of adviser
from courses such as the following:*

BIOL 172, 210, 300, 319

CHEM 301A, 315, 325, 361A

CPSC 241

EGCE 301, 324, 436, 441

GEOG 481, 485

MATH 250A, 250B

PHYS 227, 227L, 300, 310, 320, 330

Science- or engineering-based transferable extension certificate
courses from other universities

Undesignated Units (0-3 units)

These are to be taken in geological sciences, related fields and/
or career-supporting fields, with adviser approval.

BACHELOR OF ARTS IN EARTH SCIENCE (120 UNITS)

The Bachelor of Arts in Earth Science requires a minimum of 32 units of Earth science courses in Geology and Geography, plus a minimum of 24 units in related fields. Students must have a "C" (2.0) or better in all Earth science courses applied toward the requirement; in addition, students must have a 2.0 average in required related fields courses.

Core Courses (20-21 units)

GEOL 101 Physical Geology (3)

OR GEOL 110T Topics in Earth Science (4)

OR GEOL 140 Earth's Atmosphere and Oceans (3)

OR GEOL 102 Earth and Astronomical Science for
Future Elementary Teachers (3)

GEOL 101L Physical Geology Lab (1)

GEOL 201 Earth History (3)

GEOL 333 General Oceanography (3)

GEOL 335 Hydrology and Surface Processes (3)

GEOL 380 Geologic Field Techniques (3)

GEOL 420 Earth Science for Science Teachers (4)

OR GEOL 470 Environmental Geology and Planning (4)

Earth Science Electives (12-15 units)

GEOL303A, 303B, 305, 310T*, 321, 322, 355, 360, 376, 404, 406, 408, 410, 420, 436, 455, 456, 470, 475, 481A, 481B, 481C, 493, 495, 496L, 498, 499L
GEOG312, 323, 325, 328**, 329**, 350**, 422, 425, 426, 450, 452**, 481, 482, 485, 486, 488

Additional courses may be approved by the Department of Geological Sciences Undergraduate Adviser. At least 6 units must be Geological Science.

Note: no more than 3 units from any combination of GEOL 493, 495, 496L, 498 and 499L can be counted toward the requirement. GEOL102 (if GEOL101 is taken in core) and/or GEOL140 may be taken if student is in teaching pathway

* No more than 6 units of GEOL 310T may be taken

** No more than 6 units of these courses may be taken

Related Fields Core (16-22 units)

Courses not included on the list must be approved in writing by an undergraduate adviser. Students must take at least one class from each of the related field subjects and at least one of these courses must have an associated lab.

BIOL 101/L Elements of Biology/Lab (3,1)
OR BIOL 171 Evolution and Biodiversity (5)
OR BIOL 102 Biology for Future Teachers (3)*
OR accepted life science course from another institution
CHEM 100L Survey of Chemistry/Lab (3,1)
OR PHYS/CHEM 102 Physical Science for Future Elementary Teachers (3)*
OR CHEM 120A General Chemistry (5)
PHYS 101/L Survey of Physics/Lab (3,1)
OR PHYS/CHEM 102 Physical Science for Future Elementary Teachers (3)*
OR 115 Introductory Physics - Mechanics (4)
OR PHYS 211/L Elementary Physics/Lab (3,1)
OR PHYS 225/L Fundamental Physics: Mechanics/Lab (3,1)
MATH 120 Introduction to Probability and Statistics (3)
OR MATH 125 Precalculus (5)
OR MATH 130 A Short Course in Calculus (4)
OR MATH 135 Business Calculus (3)
OR MATH 150A Calculus (4)
GEOG 110 Introduction to the Natural Environment (3)

* Courses recommended for elementary school teaching pathway and must be approved by Department Undergraduate Adviser. Students not in an elementary school teacher path cannot receive credit for BIOL102 or PHYS/CHEM 102

Elective Related Fields (8 units)

Taken with adviser approval, depending on the track; including, but not limited to, the following:

GEOG 312, 323*, 325, 328, 329, 350, 422, 425, 426, 450, 452, 481, 482, 485, 488
BIOL 172, 274, 300, 305*, 318, 319, 352, 409*, 453*
CHEM 120A*, 120B, 125, 303A,B,C, 313A,B,C*
MATH 120, 125, 130, 135, 150A, 150B, 250B
PHYS 120*, 212, 226, 301
ANTH 344, 403, 404, 409
EGCE 214/L, 305, 324

* Courses recommended for elementary school teaching pathway

Undesignated electives (22 units)

Undesignated electives must be adviser-approved.

MINOR IN GEOLOGICAL SCIENCES (20 UNITS)

At least 12 units toward the Minor in Geological Sciences must be upper division; at least six of which must be taken in residence. Up to three units of GEOL 310T may be applied. Prospective minors should make an appointment with a department adviser in order to select courses that most closely match their educational goals. Prospective teachers should include courses in physical geology, Earth history, hydrology and surface processes, oceanography, mineralogy, petrology, plus GEOL 420.

GRADUATE EMPHASIS IN GEOCHEMISTRY

The Geochemistry Emphasis is offered jointly by the Department of Chemistry and Biochemistry and Department of Geological Sciences. Contact the graduate program adviser in the Department of Chemistry and Biochemistry for information regarding the Chemistry M.S. requirements, and the Department of Geological Sciences regarding the selection of appropriate graduate electives.

MASTER OF SCIENCE IN GEOLOGY (30 UNITS)

The Master of Science in Geology is based on the assumption that every geologist must have a thorough knowledge of fundamental geologic principles and that this knowledge must be rooted in field- and laboratory-based experiences.

Admission Requirements

An applicant must meet the university requirements for admission, which include a baccalaureate degree from an accredited institution and a grade-point average of at least 2.5 in the last 60 semester units attempted (see catalog section on Graduate Admissions for complete statement and procedures). In addition, acceptance into this program in a classified standing is contingent upon the following:

- Bachelor's degree in geology from an accredited institution, with an expected grade-point average of 3.0 in geology courses, which normally includes the equivalent to core courses of the Cal State Fullerton Geology B.S. program and a 2.5 grade-point-average in related science and mathematics courses; or, in the case of a bachelor's degree in a related area, a selection of science courses deemed as adequate preparation for further study in geology by the Department Graduate Committee
- Satisfactory performance on the Graduate Record Examination Aptitude Test with an expected score in the 50th percentile or better on the verbal and quantitative tests
- Two letters of recommendation
- Completion of the departmental application
- Availability of faculty and resources in the student's stated area of interest

Students with limited subject or grade deficiencies may be considered for conditional acceptance into the program if they meet all other departmental and university requirements. Conditionally classified graduate standing may be removed upon completion of adviser- and graduate-committee-approved postgraduate courses in geology, mathematics, chemistry or physics, with grades of "B" (3.0) or better.

Students with a degree in a related field and/or substantial subject deficiencies are encouraged to apply. Such applicants may be considered for conditional acceptance if they meet all other departmental and university requirements. Such a student may later qualify for classified standing by completing all courses recommended by the Department Graduate Committee and by maintaining a 3.0 grade-point average in geology and in related science and mathematics courses.

Application Deadlines

Materials and deadlines for department and university applications are available on the Geological Sciences website: <http://geology.fullerton.edu/>.

Classified Standing

Students should achieve classified graduate standing as soon as they are eligible, since no more than nine units of graduate work taken before classification can be included on the study plan for the degree (see below). Students may apply for classified standing when they: (1) have met all university and departmental admission requirements; and (2) have filed a study plan approved by the adviser, the Department Graduate Committee and the Associate Vice President for Graduate Studies and Research.

Students must meet the Graduate Level Writing Requirement as described in this catalog under "Master's Degree Requirements." Students will meet this requirement by taking GEOL 501, Research Methods in Geology.

Advancement to Candidacy

Advancement to candidacy is attained by applying for graduation and receiving a recommendation by the Department Graduate Committee.

STUDY PLAN

A study plan must be approved by the Graduate Adviser. At least 21 units must be at the graduate level; a maximum of nine units may be 400 level. A minimum grade point average for courses satisfying the study plan is 3.0.

Required Courses (9-12 units)

GEOL 500 Advanced Concepts in Geology (3)

GEOL 501 Research Methods in Geology (1)

GEOL 590 Graduate Seminar (1,1) – must be taken twice for one unit each time

GEOL 598 Thesis (1-3) – must be taken for a total of at least three, but not more than six units

Note: A public, oral defense of the thesis is required.

Focus and Breadth Courses (18-21 units)

Focus Geology Courses: Graduate adviser-approved 400- or 500-level geology courses. A maximum of three units of GEOL 599 and a maximum of three units of GEOL 593 may be taken. Course selection will be dependent on the student's academic objectives and selected in consultation with the student's thesis adviser.

Breadth Courses in Related Fields: A maximum of six units of graduate adviser-approved 400- or 500-level breadth courses offered by departments other than Geological Sciences. Courses may be taken from departments or programs such as, but not restricted to, Biological Sciences, Chemistry and Biochemistry, Physics, Mathematics, Geography, Civil and Environmental Engineering, or Environmental Studies. Course selection will be dependent on the student's academic objectives and selected in consultation with the student's thesis adviser.

COURSES IN GEOLOGY

Courses are designated as GEOL in the class schedule.

101 Physical Geology (3)

Prerequisite: high school chemistry or physics, or equivalent. Physical nature of the planet Earth, genesis of rocks and minerals, erosion processes and their effects.

101H Physical Geology (Honors) (3)

Prerequisite: high school chemistry or physics, or equivalent. Physical nature of the planet Earth, genesis of rocks and minerals, erosion processes and their effects. (weekend field trips)

101L Physical Geology Laboratory (1)

Pre- or corequisite: GEOL 101, 110T or 140. Rocks, earthquakes and map and aerial photographic interpretation. (3 hours laboratory or field trip)

102 Earth and Astronomical Science for Future Elementary Teachers (3)

Designated especially for the prospective elementary school teacher, this activity-based course examines fundamental Earth/astronomical science concepts and the potential impacts of natural hazards on ecosystems on planet Earth.

105 Field Experiences in California Geology (1)

Pre- or corequisite: GEOL 101, 110T or 140. Three field trips that examine the rich geology of California. Read and discuss topical papers and make presentations on selected topics. Weekend field trips are required. May be repeated once for credit.

110T Topics in Earth Science (4)

Prerequisite: high school chemistry or physics, or equivalent. Public interest topics in Earth science. Alternating topics include: dinosaur world; earthquakes and volcanoes. Each course includes integrated labs, lectures and field trips that explore mainstream Earth science issues. (3 hours lecture, 3 hours lab and field trips.)

140 Earth's Atmosphere and Oceans (3)

Prerequisite: high school chemistry or physics, or equivalent. Composition, structure and circulation of the Earth's atmosphere and oceans with a general focus on their interactions. Interdisciplinary topics that highlight atmosphere-ocean interactions will include global warming, ice ages, El Niño, Southern California storm activity and Santa Ana winds. (3 hours lecture, field trips)

201 Earth History (3)

Prerequisite: GEOL 101L. Evolution of Earth as interpreted from rocks, fossils and geologic structures. Plate tectonics provides a unifying theme for consideration of mountain building, evolution of life and ancient environments. (2 hours lecture, 3 hours laboratory, field trips)

201L Earth History Supplemental Lab (1)

Prerequisite: GEOL 101L; corequisite: GEOL 201. Supervised research on topics related to Earth history. Project will result in a term paper and/or web page. (3 hours laboratory, field trips)

303A Mineralogy and Introduction to Petrology (4)

Prerequisites: GEOL 101, 101L, ENGL 101; pre- or corequisite, CHEM 120A, MATH 125 or equivalent. Identifying rock-forming minerals based on their chemical, physical and optical properties; relating mineral identification to rock lithology and classification; interpreting the significance of a rock's mineral assemblage in terms of its igneous, metamorphic, sedimentary or hydrothermal origin. (2 hours lecture, 6 hours laboratory, field trip)

303B Igneous and Metamorphic Petrology (4)

Prerequisites: GEOL 303A, 380; CHEM 120A; corequisite: CHEM 120B or 125. Description, classification, occurrence and origin of igneous and metamorphic rocks. (1 hour lecture, 2 hours activity, 6 hours laboratory, field trips)

305 Earthquake Impact on Structures (3)

(Same as EGCE 305)

310T Topics in California-Related Geology (1-3)

Prerequisites: completion of one course each from General Education (G.E.) Categories B.4 and B.2. Directed investigations of one aspect of Earth science. Alternating topics are geology of national parks, California geology, ocean off California, California earthquakes, geological hazards of California and California gems and minerals. May be repeated for credit with a different topic. One or more sections offered online. (3 hours lecture for 5, 10, or 15 weeks; optional field trip)

321 Sedimentation and Stratigraphy (4)

Prerequisites: GEOL 201, 303A. Sedimentary rocks, including classification, texture, mineralogy and provenance; sedimentary environments and interpretation of ancient environments in the rock record; stratigraphic methods and patterns. (2 hours lecture, 6 hours laboratory, field trips)

322 Paleontology (4)

Prerequisites: GEOL 201; BIOL 101, 171 or equivalent. Identification, systematic, evolution, ichnology, biostratigraphy, taphonomy and paleoecologic analysis of fossil groups. (3 hours lecture, 3 hours laboratory, field trips)

333 General Oceanography (3)

Prerequisites: GEOL 101L and upper-division standing. Chemical, physical and geological nature of the oceans. (2 hours lecture, 3 hours laboratory, field trips)

335 Hydrology and Surface Processes (3)

Prerequisite: GEOL 101 or equivalent, or completion of G.E. Category B.2. Impact of surface water on the formation of soils, weathering, surface features (rivers) and groundwater. Application of hydrology as a predictive and postdictive tool on geologic, biotic and engineering problems.

355 Earth's Interior (3)

Prerequisites: GEOL 101; 303A; MATH 120 or 150A; PHYS 225, 225L or 211, 211L; CHEM 120A or equivalent. Geophysical, geochemical properties of mantle and core. Data collection techniques. Impact of internal processes on crustal/surface phenomena.

360 Structural Geology (4)

Prerequisites: GEOL 380, MATH 125. Faults, folds, mechanics of rock deformation and elementary tectonics; solution of problems by geometric, trigonometric and stereographic analysis. (3 hours lecture, 3 hours laboratory, field trips)

376 Engineering Geology (3)

Prerequisites: MATH 130 or 150A; GEOL 380 or EGCE 214 and 214L. Geology applied to engineering works. Earth materials, processes; site evaluation techniques; geologic hazard analysis; case histories. (2 hours lecture, 3 hours laboratory, field trips)

380 Geologic Field Techniques (3)

Prerequisites: GEOL 101, 101L, ENGL 101; MATH 115, 125 or equivalent; pre- or corequisite, GEOL 201. Basic geologic field equipment. In-class and weekend field projects include: basic geologic mapping on topographic maps and aerial photographs; field note-taking methods; field data interpretation; preparing geologic maps; preparing stratigraphic columns and geologic cross-sections; technical report writing. (2 hours lecture, 6 hours in-field activity, weekend field trips)

404 Optical Mineralogy and Petrography (3)

Prerequisites: GEOL 303A. Principles of optical mineralogy and use of petrographic microscope to analyze minerals and textures of igneous, metamorphic and sedimentary rocks. (1 hour lecture, 6 hours laboratory, field trip)

406 Geochemistry (3)

Pre- or corequisites: GEOL 303B, CHEM 120B or 125, MATH 130 or 150A. Basic chemical and thermodynamic principles applied to the origin and alteration of igneous, metamorphic and sedimentary rocks (2 hours lecture, 3 hours lab, field trips).

408 Volcanology (3)

Prerequisites: GEOL 303B; MATH 130 or 150A or equivalent. Volcanic eruptions as well as their deposits, hazards and impact on society. Classroom activities and field trips (required) will explore modern and ancient volcanic environments. (3 hours lecture, field trips)

410 Physical Earth/Space Systems (3)

Prerequisites: completion of one course each from G.E. Categories B.4. and B.1. Physical and chemical interactions among major Earth systems (e.g., geosphere, atmosphere and hydrosphere) considered within the context of Earth's position in its solar system and in space. Appropriate for elementary teachers. Not available for degree credit in B.S. or M.S. in Geology; available for credit in M.A.T.S. in the Science Education program. (2 hours lecture, 2 hours activity)

420 Earth Science for Science Teachers (4)

Prerequisites: GEOL 101, 101L and junior or senior standing or science teaching credential. Major concepts of the earth sciences with primary emphasis on physical and planetary geology and secondary emphasis on meteorology and oceanography. (3 hours of lecture, 3 hours of laboratory, field trips)

436 Hydrogeology (3)

Prerequisites: GEOL 101L and 335 or equivalent; MATH 130 or 150A. Occurrence, movement and utilization of groundwater resources; geological, geophysical and hydrological methods for groundwater exploration and development. Well hydraulics and ground-water contamination. (2 hours lecture, 3 hours laboratory, field trips)

440 Paleoclimatology (3)

Prerequisite: GEOL 335. Methods and archives used to understand past climate; examining atmospheric circulation, oceanic circulation and the Earth's energy budget in the context of past climate change. (3 hours lecture, field trips)

455 Earthquake Seismology (3)

Prerequisites: GEOL 101; 360; PHYS 225, 225L or 211, 211L; MATH 130 or 150A. Seismic waves, their recording and measurement. Estimation of earthquake source strength, location and mechanism. Introduction to seismic risk and strong motion studies. (3 hours lecture, field trips)

456 Geophysics (3)

Prerequisites: MATH 150A, 337 or 130; PHYS 225, 225L or 211, 211L; PHYS 226, 226L or 212, 212L recommended. Seismic refraction, gravity, magnetic and electrical techniques and fundamentals as applied to determine subsurface structure, groundwater and location of mineral resources. (2 hours lecture, 3 hours laboratory, field trips)

470 Environmental Geology and Planning (4)

Prerequisites: GEOL 101L or 420. Geologic processes, hazards, mineral and energy resources and their interaction with planning and environmental regulations. (3 hours lecture, 3 hours lab, field trips)

475 Quaternary Tectonics (4)

Prerequisites: GEOL 360, 380. Processes and products of relatively young Quaternary tectonics. Evaluation of surface tectonic features, their ages, deformation styles and structural regimes. Assessment of past and contemporary deformation rates. (2 hours lecture, 6 hours lab, field trips)

481A Geology Field Camp I (4)

Prerequisites: GEOL 303B, 321, 335, 360, 380. Advanced geologic mapping in a variety of geologic settings. Field report, map and cross-sections required. Instructional fee required. (45 hours per week for four weeks during summer)

481B Geology Field Camp II (3)

Prerequisites: GEOL 380 and consent of instructor. Advanced geologic field work in a variety of geologic settings. Field report, map and cross-sections required. Instructional fee required. (45 hours a week for three weeks during summer)

481C Hydrology and Engineering Geology Field Camp (4)

Prerequisites: GEOL 376, 380, 436. Geologic mapping and hydrologic mapping and techniques applied to integrated hydrogeologic model for selected areas. Field report(s), map(s), cross-sections required. Instructional fee required. (45 hours per week for three weeks during summer)

493 Directed Studies (1-3)

Prerequisites: upper-division standing and consent of instructor. Directed studies in specialized areas of the geological sciences, such as petroleum geology, sedimentology, optical and instrumentation techniques. Library research and written reports required. May be repeated once with a different topic. Not available for M.S. Geology graduate credit.

495 Geological Sciences Internship (3)

Prerequisite: junior or senior standing in geological sciences. Geological sciences work experience, salaried or volunteer, with industry, government or private agencies. Student intern will be supervised by faculty adviser and employer. (1 hour of seminar per week plus a total of 120-150 hours of work experience)

496L Geological Sciences Tutorial (2)

Prerequisite: at least 20 completed units in geological sciences, in good academic standing. Provides a maximum of 6 hours per week of supervised tutoring or teaching experiences (including office hours) for undergraduate students assisting in laboratory or field geology classes. Not available for M.S. geology graduate credit.

498 Undergraduate Thesis (1-3)

Prerequisites: approval of thesis adviser for first unit. Completion of thesis proposal that is approved by thesis adviser and the Department Undergraduate Adviser for second and subsequent units. Extension of an advanced course, conducted independently by the student under faculty supervision, culminating in a paper of professional quality. Must be repeated for three units total.

499L Independent Study (1-3)

Independent study of a topic selected in consultation with and completed under the supervision of the instructor. Not available for M. S. Geology degree credit.

500 Advanced Concepts in Geology (3)

Current advances in geological concepts with emphasis on Southern California geology. Concepts include: plate tectonics; igneous processes; sedimentary record; surficial processes; water resources. (2 hours lecture, 2 hours activity, field trips)

501 Research Methods in Geology (1)

Prerequisite: GEOL 500. Introduction to research planning: choosing a thesis topic; bibliographic search; research design (laboratory and field); research proposal preparation. (2 hours activity)

506T Advanced Topics in Geochemistry (3)

Prerequisite: GEOL 406 or consent of instructor. Special topics on modern techniques and recent advances in geochemistry, such as geochronology and environmental isotope geochemistry. May be repeated for credit with a different topic. (3 hours lecture; field trips)

510T Advanced Topics in Geology (3)

Prerequisite: consent of instructor. Modern techniques and recent advances in geology, such as basin analysis, igneous petrology, tectonics and studies of the Mesozoic Era. May be repeated for credit with a different topic. (3 hours lecture; field trips)

535T Advanced Topics in Hydrogeology (3)

Prerequisite: graduate standing or consent of instructor. Modern techniques and recent advances in hydrogeology, such as groundwater modeling, well hydraulics and aquifer analysis, contaminant hydrogeology, hydrogeochemistry and environmental sampling and protocols. May be repeated for credit with a different topic. (3 hours lecture; field trips)

555T Advanced Topics in Geophysics (3)

Prerequisite: consent of instructor. Selected topics in geophysics. Whole-Earth geodynamics; geophysical evidence of large-scale Earth properties; links between earthquakes and plate tectonics. May be repeated for credit once with different topic. (3 hours lecture/discussion, field trips)

575T Advanced Topics in Engineering Geology (3)

Prerequisite: consent of instructor. Modern techniques and recent advances in engineering geology, such as Quaternary geology, landslide analysis and paleoseismology. May be repeated for credit with a different topic. (3 hours lecture; field trips)

590 Geoscience Seminar (1)

Attendance at departmental and other seminars. Discussion and/or written assignments based on seminar topics required. Must be repeated at least once.

593 Directed Graduate Studies in the Geosciences (1-3)

Prerequisites: Postbaccalaureate standing and consent of instructor. Directed studies of specialized geoscience topics not covered by existing courses and tailored to individual student interest. Literature research, recitations and written reports required. May be repeated for a total of 3 units.

598 Thesis (1-3)

Prerequisites: approval of thesis adviser for the first unit. Completion of M.S. Thesis proposal that is approved by thesis committee and the Department Graduate Committee Chair for second and subsequent units. Design, analysis and presentation of a research problem culminating in a thesis for the master's degree. May be repeated for up to six units total.

599 Independent Graduate Research (1-3)

Prerequisites: approval of adviser and Department Graduate Committee. Independent research on an approved topic. May be repeated for up to 3 units maximum.



Gerontology

College of Humanities and Social Sciences

INTRODUCTION

Gerontology, the study of aging, is a multidisciplinary field that examines the biological, psychological, social and health/fitness aspects of the aging process. The unprecedented growth of the older population has created a growing demand for professionals in a variety of fields who understand issues related to the aging process.

Programs in Gerontology provide students with knowledge and critical understanding of the processes of adult development and aging. They prepare students for a variety of career opportunities in business, government, industry, public and private agencies, health and human services, research and education, and entrepreneurial endeavors. Many career options involve working with healthy and independent older adults, while other positions involve working with older adults who have health problems and other age-related limitations.

LEARNING GOALS AND STUDENT LEARNING OUTCOMES

The following goals and learning outcomes have been established for students pursuing a Master's Degree in Gerontology (MSG):

Understand relevant gerontology theories, concepts and research findings

- Describe and explain relevant theories, concepts and related research findings in physiological, psychological and social aspects of aging
- Be sensitive to the political, economic and cultural context and aging outcomes
- Take a life course perspective and understand the developmental life in relationship to older adult development

Information literacy and research analysis skills

- Identify, access, analyze and synthesize relevant sources
- Critically analyze research studies
- Build a good foundation for doctoral study in gerontology

Communication skills

- Write in APA style and effectively take purpose and audience into account
- Make effective oral presentations, taking purpose and audience into account

Field-based practice and skills

- Develop competence in the involvement of service, implementation and administration of programs in a variety of settings that involve older people and their caregivers
- Exhibit knowledge of the purpose, structure and processes of community organizations and government agencies serving older adults, and demonstrate an ability to use that knowledge effectively to enhance the welfare of older populations

PROGRAM COORDINATOR

Joseph A. Weber

PROGRAM OFFICE/WEBSITE

College Park 900

657-278-7057

<http://hss.fullerton.edu/gerontology>

PROGRAMS OFFERED

Minor in Gerontology

Concentration in Gerontology

Master of Science in Gerontology

PROGRAM COUNCIL

Pauline Abbott (Director, Institute of Gerontology)

Dennis Berg (Sociology)

Echo Chang (Sociology and Gerontology)

Dana Collins (Sociology)

Angela Della Volpe (HSS College Dean)

John Doyle (Human Services)

Barbara Erickson (Anthropology)

Charlotte Fox (Osher Lifelong Learning Institute, OLLI)

Barbara Haddad (Nursing)

Melanie Horn-Mallers (Human Services)

Sara Johnson, (Anthropology)

Jessie Jones (Health Science)

Kristin Kleinjans (Economics)

Robert Koch (Biology)

Edyth Krampe (Sociology)

Davina Ling (Economics)

Margaret Luzzi (Extended Education)

Shari McMahan (Health Science)

Carter Rakovski (Sociology)

Mary Read (Counseling)

Carl Renold (Human Services)

Roberta Rikli (H&HD College Dean)

Debbie Rose (Kinesiology)

Wendy Elliott Scheinberg (Oral History)

Kirt Spradlin (Osher Lifelong Learning Institute, OLLI)

Chandra Srinivasan (Biochemistry)

Barbara Talento (Osher Lifelong Learning Institute, OLLI)

Eileen Walsh (Sociology)

Andy Washington (Osher Lifelong Learning Institute, OLLI)

Peggy Weatherspoon (Gerontology Academic Program, Sociology)

Joseph A. Weber (Coordinator, Gerontology Academic Program, Sociology)

Karen Wong (Sociology and Gerontology)

Laura Zettel-Watson (Psychology)

- Understand that the needs in old age are multifaceted and may best be addressed from a collaborative, interdisciplinary approach
- Identify relevant ethical and legal issues and the impact of possible actions in real-world situations

RUBY GERONTOLOGY CENTER

The Charles L. and Rachael E. Ruby Gerontology Center serves as a forum for intellectual activity and creative scholarship in the area of gerontology. The center houses the activities of the Continuing Learning Experience, the Institute of Gerontology, as well as being a resource center on aging for the Orange County region.

The center's goals include: promoting educational programs concerning adult development and aging; developing productive intergenerational activities in education and research; fostering cross-disciplinary research on topics related to aging and later life; providing opportunities for lifelong learning; and expanding opportunities for professional growth and development for those interested in gerontology.

Students are encouraged to become involved in research, conferences and community service activities of the Center.

MINOR IN GERONTOLOGY (21 UNITS)

Lower-Division Requirements (3 units)

SOCI 133 Introduction to Gerontology (3)*

Upper-Division Requirements (9 units from the following)

BIOL 306 Biology of Aging (3)*

KNES 454 Physical Dimensions of Aging (3)

PSYC 362 Psychology of Aging (3)*

SOCI 443 Sociology of Aging (3)

Required Internship (3 units)

One three-unit internship at the 300/400 level in a related field. An internship is a supervised experience working within the community. Internships are coordinated through the student's major department.

Upper-Division Electives (6 units, adviser approved)

ANTH 308, 408, 417

BIOL 306, 311*

CAS 312*

FIN 411

HIST/GERO 493B

HESC 342*, 401, 440, 450

HCOM 320*, 345*

HUSR 310, 380*, 385, 400, 410, 420, 480

KNES 353*, 364, 371, 400, 454, 455

MGMT 435

MKTG 351

NURS 357

PHIL 314*, 448

PSYC 302, 303, 361, 362, 415, 474, 475

SOCI 351, 354*, 360*, 361*, 371*, 433, 443

WMST/GERO 410

Additional elective courses are available in selected departments across campus. Such additional electives are chosen in consultation with the major department adviser and with the approval of the Coordinator of Gerontology Program. Up to nine units of coursework may be applied to both the major and Gerontology minor.

* Meets General Education requirement.

MAJORS THAT COMPLEMENT THE MINOR IN GERONTOLOGY

The Gerontology minor is available and appropriate to strengthen and otherwise complement the coursework of students in many majors. Notation of the minor appears on the transcript and the diploma.

MASTER OF SCIENCE IN GERONTOLOGY (30 UNITS)

The Master of Science program combines training in both scientific and applied areas of gerontology. Because various departments across the university participate in the program, students are able to design a study plan that will meet their individual needs. In addition to coursework in research and theory, the program provides preparation for work in a variety of settings. It can also be tailored to meet the needs of the student who wants to prepare for a doctoral program.

Admission to Graduate Standing – Conditionally Classified

An applicant who meets the following requirements may be considered for conditionally classified graduate standing: a baccalaureate degree from an accredited institution and a grade point average of at least 3.0 in the last 60 units attempted; submission of the formal application form; submission of two copies of transcripts from all institutions attended; three letters of recommendation; and a letter from the student stating professional objectives. A Gerontology Program Application form must be filed with the Gerontology Program Office.

The baccalaureate must be in gerontology or a related field in conjunction with an undergraduate minor, certificate or emphasis in gerontology or the equivalent. In the absence of the above, the student should have the following 12 units of upper-division coursework in gerontology or their equivalent:

BIOL 306 Biology of Aging (3)

KNES 454 Physical Dimensions of Aging (3)

PSYC 362 Psychology of Aging (3)

SOCI 443 Sociology of Aging (3)

The following additional criteria may be taken into consideration: research experience; previous paid or volunteer experience in working with elderly people.

It may be possible for applicants who have minimal deficiencies in prerequisite requirements, as detailed above, but who are otherwise highly qualified, to be admitted in conditionally classified graduate standing, with provisions made for removal of deficiencies prior to granting classified standing. For further information, consult with the Gerontology Academic Program Coordinator.

Admissions to Graduate Standing – Classified

Each student, in consultation with the Program Coordinator, will develop a study plan. This will be outlined on an official university Study Plan Form. Students who have met the requirements for conditionally classified standing will be granted classified standing upon submission of an adviser-approved study plan to the Graduate Studies office.

Study Plan

The Master of Science in Gerontology requires a minimum of 21 units at the 500 level.

Required Core Courses (12 units)

GERO 500 Adult Development and Aging (3)

GERO 501 Research Methods in Gerontology (3)

GERO 503 Aging and Public Policy (3)

GERO 595 Gerontology Internship (3)

Gerontology Electives (6-9 units)

Multidisciplinary Electives (6-9 units)

Selected from two or more departments with the program coordinator's approval:

*Exit Option (0-3 units)**

GERO 598 Thesis (3)

OR GERO 597 Project 597 (3)

OR Comprehensive Exam (0 units)

*If a project or thesis is not done, an additional three units of a GERO 500-level elective course and a comprehensive examination must be taken.

GERONTOLOGY COURSES

Courses are designated as GERO in the class schedule.

133 Introduction to Gerontology (3)

(Same as SOCI 133)

410 Women, Health and Aging (3)

(Same as WMST 410)

420 Aging and Dementia (3)

Prerequisites: completion of General Education (G.E.)

Category A; satisfies the upper-division writing requirement; PSYC 201 or SOCI 303 or equivalent; or classified graduate standing.

Physiological, psychological, social, economic aspects of dementia; its impact on the individual, family and society, with an emphasis on Alzheimer's disease. One or more sections offered online.

425 Successful Aging and Gerotechnology (3)

Prerequisites: Completion of G.E. Category A.; SOCI/GERO 133 or classified graduate standing. Gerotechnology is the study of technology and aging. Impact of computer and internet, devices for sensory impairments, telehealth, smart home, automobile and transportation innovation on older adults, caregivers and society.

433 Aging and Social Services (3)

(Same as SOCI 433)

443 Sociology of Aging (3)

(Same as SOCI 443)

450 Applied Health Promotion in Aging Populations (3)

(Same as HESC 450)

493B Oral History/Guided Autobiography (3)

(Same as HIST 493B)

500 Adult Development and Aging (3)

Prerequisite: graduate standing and/or admission into a master's program. Theory and research on biological, psychological and social changes that accompany adult development and aging. May include a service learning component. One or more sections offered online. (Same as SOCI 500)

501 Research Methods in Gerontology (3)

Prerequisite: admission to M.S. in Gerontology. Research processes and problems in gerontology; more detailed study of applied research, including program evaluation in the field of gerontology.

503 Aging and Public Policy (3)

Prerequisites: GERO 500, SOCI 443, POSC 309 or 315 or classified graduate student status. Origin, development and overview of public policies affecting older persons, families and service providers. Political administrative, advocacy and private sector involvements in employment, retirement, income security, healthcare, social services and housing of older persons. May include a service learning component. (Same as POSC/SOCI 503)

504T Selected Topics in Gerontology (3)

Prerequisites: classified status in a master's program. Detailed examination of a selected area of gerontology. Relevant literature and on the preparation, presentation (oral and written) and discussion of research papers. May be repeated once for credit with a different topic. (Same as SOCI 504T)

506 Economics of Aging (3)

Prerequisites: admission into the Gerontology M.S. Program or classified BAE status and GERO 501 or ECON 340. Economic consequences of population aging and the economic status of the aged. Income adequacy in old age: dependency, work income, retirement planning, social security, employer-sponsored pensions and financing health care. Economic security today and tomorrow. International comparisons. (Same as ECON 506)

507 Professional Issues in Gerontology (3)

Prerequisite: classified graduate student status. Introduction to the concepts, attitudes, knowledge, skills and ethical issues upon which professional practice in gerontology is based.

508 Social and Ethical Issues in Aging (3)

Prerequisite: graduate standing in Gerontology, Sociology or Public Health. Social and ethical issues facing an aging society. Ethical terminology, ethical decision-making and social implications of ethical issues related to such topics as nursing homes, caregiving, suicide and intergenerational equality. (Same as SOCI 508.)

526 Administration and Systems Management (3)

(Same as POSC 526)

545 Nonprofit and Societal Marketing (3)

(Same as MKTG 545)

595 Gerontology Internship (3)

Prerequisites: classified status in the M.S. in Gerontology degree program and consent of instructor and Program Coordinator. Supervised experience in organizations that serve older adults and their families. May be repeated once for credit.

597 Project (3)

Prerequisites: classified status in the M.S. in Gerontology Program and consent of instructor and Program Coordinator. Under the direction of a faculty member, a topic that integrates learning in the program with an applied area of student interests will be selected and a major project on the topic will be developed and submitted.

598 Thesis (3)

Prerequisites: classified status in the M.S. in Gerontology degree program and consent of instructor and Program Coordinator. Individual research under supervision, reported in a thesis and defended successfully in an oral examination conducted by a faculty thesis committee.

599 Independent Study in Gerontology (1-3)

Prerequisites: completion of the M.S. in Gerontology core courses. Individualized study with an instructor whose recognized interests are in the area of the planned study. Conferences with the instructor as necessary; work will culminate in one or more papers. May be repeated once for credit.



Health Science

College of Health and Human Development

INTRODUCTION

The mission of health science focuses on understanding and promoting health in diverse populations. Health science bridges the gap between scientific discoveries and the application of this knowledge to improve the quality of people's lives. Health science research reflects the range of diverse health problems, settings and populations. The approach considers the multi-level determinants of health and well-being, including individuals, groups, organizations and communities. Health science professionals work at these various levels to implement and evaluate efforts that promote health and prevent illness and disease. An important aspect of this process involves empowering people to change the factors that influence their health and well-being, be it within the individual or in their social environment.

The health science program offers a Bachelor of Science degree in Health Science with focus areas in health promotion and disease prevention, occupational and environmental health or special studies. The undergraduate minor in Health Science, based on core curricula, provides opportunities for professional and/or personal enhancement.

The Master of Public Health (MPH) degree offers specialized areas of study in health promotion and disease prevention, occupational and environmental health, and gerontological health.

LEARNING GOALS AND STUDENT LEARNING OUTCOMES

The following goals and learning outcomes have been established for students pursuing a degree in health science:

Multilevel ecological framework

- Implement and evaluate multilevel efforts that promote health and prevent illness and disease in various settings among diverse populations

Critical thinking and problem solving

- Interpret and analyze scholarly research and literature and advocate for health science issues
- Understand theories, research design, sampling methodology and measurement
- Evaluate health promotion programs and critique information provided by media and other primary and secondary sources

Information and health literacy

- Access and comprehend quality information sources relevant to specific health issues
- Integrate and evaluate information to draw reasonable conclusions based on evidence
- Articulate ideas, taking into consideration purpose, audience and presentation mode

ACTING DEPARTMENT CHAIR

C. Jessie Jones

DEPARTMENT OFFICE/WEBSITE

Kinesiology and Health Science 121

657-278-3316

<http://hdcs.fullerton.edu/hesc>

PROGRAMS OFFERED

Bachelor of Science in Health Science

Minor in Health Science

Master of Public Health

FACULTY

Laura Chandler, Anthony Di Stefano,
Jasmeet Gill, C. Jessie Jones, Danny
Kim, Kathleen Koser, Shari McMahan,
Michele Mouttapa, Archana McEligot,
Sora Tanjasiri, Dara Vazin, Jie Weiss,
Michele Wood, Joshua Yang

Field-based practice

- Integrate the multilevel health science framework to foster effective practice and work successfully with diverse populations
- Exhibit knowledge of the purpose, structure and processes of community organizations and government agencies focused on health needs through the lifespan and demonstrate an ability to use that knowledge effectively to shape and enhance communities
- Understand that the needs of populations are multifaceted and may best be addressed from a collaborative, interdisciplinary approach

Professional growth

- Engage in regular self-assessment of professional public health and health education competencies and practice within the scope of expertise
- Develop collaborative skills to work productively in groups and demonstrate an understanding of professional standards, ethical practice and legal mandates
- Commit to using health science knowledge to advocate on behalf of underserved populations

BACHELOR OF SCIENCE IN HEALTH SCIENCE (120 UNITS)

The Bachelor of Science degree in Health Science prepares students for careers as health educators, as well as for those who seek quality preparation for advanced study. Through required and elective coursework, students must complete a focus area in health promotion and disease prevention, occupational and environmental health, or special studies. The competency-based degree program prepares students for certification as health education specialists and for careers in community health, worksite health promotion, occupational health and safety and/or environmental health.

The degree requires 52 units in the major, all of which must be completed with a “C” (2.0) or better, and must be taken on an Option 1 (letter grade) basis

Prerequisite Coursework Applicable to General Education (13 units)

- BIOL 101 Elements of Biology (3)
- CHEM 100 Survey of Chemistry (3)
- CHEM 100L Survey of Chemistry Lab (1)
- PSYC 101 Introduction to Psychology (3)
- HCOM 102 Public Speaking (3)

Core Courses (28 units)

- HESC 101 Personal Health (3)
- KNES 210 Human Anatomy and Physiology (3)
- HESC 220 Concepts in Health Science (3), prerequisite for all Health Science 400-level courses; concurrent with HESC 494 Practicum in Health Science (1)

- HESC 349 Measurement and Statistics in Health Science (3)
- HESC 400 Program Design for Kinesiology and Health Promotion (3)
- HESC 401 Epidemiology (3)
- HESC 440 Determinants of Health Behavior (3)
- HESC 475 Health Science Planning, Research and Evaluation (3)
- HESC 495 Internship in Health Science (3)

Advising Tracks (21 units)

In addition to the core requirements that all health science majors must complete, students are required to select one of the three advising tracks to successfully complete the requirements of the degree.

Health Promotion and Disease Prevention Advising Track (21 units)

Required (9 units)

- HESC 410 Community Health Education (3)
- HESC 411 Promoting Health in Multicultural Populations (3)
- HESC 460 Worksite Health Promotion (3)

Electives (6-12 units)

- HESC 321 Drugs and Society (3)
- HESC 325 Consumer Health (3)
- HESC 342 Stress Management (3)
- HESC 350 Nutrition (3)
- HESC 353 Physical Activity and Lifelong Well-being (3)
- HESC 358 Contemporary Issues in Children’s Health (3)
- HESC 405 Worksite Injury Prevention and Rehabilitation (3)
- HESC 415 Environmental Health (3)
- HESC 450 Applied Health Promotion in Aging Populations (3)
- HESC 461 Occupational Safety and Health (3)

Elective Courses from other Departments (0-6 units)

Students choose a maximum of six adviser-approved units from the following:

- AFRO 304
- AMST 438
- ANTH 308, 315, 322, 344
- ASAM 340, 342, 346, 348
- BIOL 300, 302, 305, 306, 310, 360, 361
- CHEM 301A, 301B, 302, 302A, 302B, 303A, 303B, 303C, 311, 313A, 313B, 313C
- CHIC 305
- GEOG 350
- KNES 348, 351, 432, 454
- NURS/HESC 301
- PHIL 314

PSYC 312, 341, 350, 351, 362, 391
SOC 300, 354, 360, 361, 381, 385, 443
SPED 371
WMST 410

**Environmental and Occupational Health and Safety
Advising Track (21 units)**

Required (9 units)

HESC 405 Worksite Injury Prevention and Rehabilitation (3)
HESC 415 Environmental Health (3)
HESC 461 Occupational Safety and Health (3)

Electives (6-12 units)

HESC 321 Drugs and Society (3)
HESC 325 Consumer Health (3)
HESC 342 Stress Management (3)
HESC 350 Nutrition (3)
HESC 353 Physical Activity and Lifelong Well-being (3)
HESC 358 Contemporary Issues in Children's Health (3)
HESC 410 Community Health Education (3)
HESC 411 Promoting Health in Multicultural Populations (3)
HESC 450 Applied Health Promotion in Aging Populations (3)
HESC 460 Worksite Health Promotion (3)

Elective Courses from other Departments (0-6)

Students choose maximum six adviser-approved units from the department's approved list of elective courses (see elective list above under "Health Promotion and Disease Prevention" electives from other departments).

Special Studies Advising Track (21 units)

Students meet with an adviser and develop a "Special Studies" program consisting of 21 adviser-approved units from the following:
HESC 321, 325, 342, 350, 353, 358, 405, 410, 411, 415, 450, 460, 461
BIOL 302, 305, 306, 310, 360, 361
CHEM 301A, 301B, 302, 302A, 302B, 303A, 303B, 303C, 311, 313A, 313B, 313C, 303B, 303C, 311, 313A, 313B, 313C
GEOG 350
KNES 348, 351, 432, 454
NURS/HESC 301
PHIL 314
PSYC 312, 341, 350, 351, 362, 391
SOC 300, 354, 361, 381, 385, 443
SPED 371
WMST 410

English Proficiency Requirement (3 units)

In order to satisfy the upper-division writing requirement of the university, Health Science majors must pass: (1) English 301 Advanced College Writing with a grade of "C" (2.0) or better; and (2) the Cal State Fullerton Examination in Writing Proficiency (EWP). Please see additional information provided in this catalog on the writing requirement.

MINOR IN HEALTH SCIENCE (21-22 UNITS)

The Health Science minor offers two advising tracks: Health Promotion and Disease Prevention (21 units); and Environmental and Occupational Health (22 units).

In completing the requirements for the minor, a minimum of 12 units – at least six of which must be upper division – must be distinct and different from the units used to complete the requirements of the major. Any units above the minimum requirement, which can be used to satisfy both the requirements for the minor and for the major, may be double counted. General education courses, however, may be used to meet minor requirements.

Coursework must be taken for a letter grade and completed with a "C" (2.0) grade or better to be counted toward the minor.

Core Courses (6 units)

HESC 101 Personal Health (3)
HESC 401 Epidemiology (3)
OR HESC 440 Determinants of Health Behavior (3)

Students preparing to take the REHS exam should select HESC 401.

**Health Promotion and Disease Prevention Track Electives
(15 units)**

Health Science Electives (9-15 units of the following):

HESC 321 Drugs and Society (3)
HESC 325 Consumer Health (3)
HESC/KNES 342 Stress Management (3)
HESC/KNES 350 Nutrition (3)
HESC 358 Contemporary Issues in Children's Health (3)
HESC 405 Worksite Injury Prevention and Rehabilitation (3)
HESC 410 Community Health Education (3)
HESC 411 Promoting Health in Multicultural Populations (3)
HESC 450 Applied Health Promotion in Aging Populations (3)
HESC 460 Worksite Health Promotion (3)
HESC 461 Occupational Health and Safety (3)
KNES/HESC 353 Physical Activity and Lifelong Well-Being (3)

Elective Courses from other Departments (0-6 units with adviser approval):

AFRO 304
AMST 438

ANTH 308, 315, 322, 342, 344
ASAM 201, 300, 340, 342, 346
BIOL 300, 305, 306, 310, 360, 361
CHEM 303A, 303B, 303C, 311, 313A, 313B,
CHIC 106, 305, 345
GEOG 350
KNES 348, 351, 454
NURS/HESC 301
PSYC 312, 341, 351, 362
SOC 300, 354, 360, 381, 385, 443
SPED 371
WMST 410

Environmental and Occupational Health Track (16 units)

Required Courses (12 units)

HESC 415 Environmental Health (3)
HESC 461 Occupational Health (3)
HESC 349 Measurement and Statistics in Health Science (3)
OR Mathematics 120 Introduction to Probability and Statistics (3)
POSC 320 Introduction to Public Management and Policy (3)

Elective Courses (4 units)

BIOL 438 Public Health Microbiology (4)
CHEM 313A Environmental Pollution and its Solutions:
Air Pollution (1)
CHEM 313B Environmental Pollution and its Solutions:
Water Pollution (1)
CHEM 313C Environmental Pollution and its Solutions:
Land Pollution (1)
CHEM 435 Chemistry of Hazardous Materials (3)
GEOL 335 General Hydrology (3)

MASTER OF PUBLIC HEALTH (42 UNITS)

The purpose of the Master of Public Health program is to prepare public health professionals to draw on the knowledge and skills from a variety of disciplines and to define, critically assess, evaluate and resolve public health problems. MPH program graduates will have a common educational grounding that will enable them to work effectively with the broad spectrum of public health issues related to their public health careers.

Application Deadlines

The deadline for completing online applications is March 1 for the following fall semester (see <http://www.csumentor.edu>). Mailed applications need to be postmarked by the same deadline. However, the deadline may be changed based upon enrollment projections.

Admission to Graduate Standing – Classified

Students must apply to the department and university for admission. Minimum requirements for admission to the university are:

- An earned baccalaureate degree from an accredited college or university
- GPA of 2.5 in the last 60 units attempted
- Good standing at the last college attended

After meeting the above criteria, additional requirements for acceptance in the MPH program include:

- Copy of official transcript(s) from all college work sent directly to the MPH Graduate program coordinator
- Two letters of recommendation
- A narrative statement (300-500 words describing how the program relates to professional goals)
- A current résumé
- Completion of six units of statistics and research methods (appropriate courses include statistics, epidemiology, research methods, program design and evaluation, etc.) with a grade “C” (2.0) or better
- Appropriate education background for career track courses (nine units or equivalent within specialized track. Professionals currently in field can demonstrate proficiency by coursework or by portfolio review or similar supporting evidence).
- GPA of 3.0 in the last 60 units completed
- Paid or volunteer experience in public health, health education or related health area
- Communication skills utilizing a second language encouraged

Admission to Graduate Standing – Conditionally Classified

It may also be possible for applicants who have minimal deficiencies in prerequisite requirements, as detailed above, but are otherwise highly qualified, to be admitted in conditionally classified graduate standing; with provisions made for removal of deficiencies prior to the granting of classified standing. For further information, consult with the MPH Program Coordinator.

GRADUATE STUDY PLAN

Twenty-seven of the 42 units required for the degree are core competency classes, including a six-unit internship and 15 units of electives, 75 percent of which must be 500-level courses. Students work with a faculty adviser to select these electives to support career areas in health promotion, environmental and occupational health, gerontological health, or in a special studies track such as health anthropology or health counseling or other special academic/career needs.

Core Course Requirements (27 units)

- HESC 500 Issues in Public Health (3)
HESC 501 Advanced Methods in Epidemiology (3)
HESC 508 Statistical Methods in Health Science (3)
HESC 515 Advanced Environmental Health (3)
HESC 524 Public Health Administration (3)
HESC 540 Advanced Study in Health Promotion and Disease Prevention (3)
HESC 550 Graduate Internship (6)
HESC 597/598 Project/Thesis (3) or Comprehensive Examination*

*Students who select the Comprehensive Examination shall be required to complete an additional adviser-approved 500-level course (3 units).

Electives (15 units)

Electives must be approved by an adviser. Three units must be an approved research methods course. HESC 510 is recommended.

HEALTH SCIENCE COURSES

Courses are designated as HESC in the class schedule.

101 Personal Health (3)

Basic concepts relating to health and well-being from a holistic perspective. Mental, emotional, physical and socio-environmental dimensions of health, sexuality and relationships; nutrition and physical fitness; use and abuse of drugs; health care services and current health problems.

102 Prevention and First Aid (2)

The hazards in environment. Care and prevention of accidents. Standard first aid certification by the American Red Cross granted upon successful completion of requirements.

203 CPR, Automated External Defibrillator and Standard First Aid (1)

Provides knowledge and skills necessary to respond to injuries and sudden illnesses in the community. Successful completion provides American Red Cross certifications in infant, child and adult Cardiopulmonary Resuscitation (CPR), Automated External Defibrillator (AED) and Standard First Aid. Credit/no credit only.

220 Concepts in Health Science (3)

Prerequisite: one course from General Education (G.E.) Category B.2 or B.5. Corequisite: HESC 494. Theoretical and practical issues of Health Science as a profession. Topics include history, status, resources, roles in various settings, legal and ethical issues in health education.

301 Promotion of Optimal Health (3)

Prerequisites: one course from G.E. Category B.2 and junior or senior standing. Advanced health concepts and practices. Common health problems, causative factors and methods for prevention. Preventive and promotive health concepts and practices; integrating physiological, psychosocial, spiritual, cultural and environmental factors that inhibit or facilitate optimal health. Elective for nursing majors.

303 Professional Rescuer CPR, Automated External Defibrillator and First Aid (3)

Prerequisites: KNES 210 and junior or senior standing. Designed for students considering working in medical and health-related fields who must obtain Professional Rescuer (CPR), Automated External Defibrillator (AED) and First Aid certifications. Back injury prevention, stress management and cardiovascular function.

321 Drugs and Society (3)

Prerequisites: completion of lower-division general education science requirement and junior or senior status. Habit-forming substances such as alcohol, tobacco, narcotics, hallucinogens, and related drugs, stimulants and depressants. Social, historical and legal aspects of the drug problem are considered.

325 Consumer Health (3)

Prerequisites: HESC 101 and junior or senior standing. Analysis and evaluation of health information, products and services; medical quackery, fraudulent health practices and laws and agencies protecting the consumer will be explored. One or more sections offered online.

342 Stress Management (3)

Prerequisites: one course from G.E. Category E; minimum sophomore standing. Nature of stress and physiological and psychological effects of prolonged stress responses. Short- and long-term somatic and behavioral techniques (exercise, relaxation, meditation, nutrition, time management and goal setting) for management of stress. Health Science majors may not count this course for General Education. Kinesiology majors may count this course either for the major or for General Education. (Same as KNES 342)

349 Measurement and Statistics in Health Science (3)

Prerequisites: completion of G.E. Categories B.4 and D.1. Measurement theory and statistics used to evaluate health and human performance, focusing on analyzing and interpreting data in different environments. Lecture, discussion, cooperative learning and field observation. Active participation and experiential learning. One or more sections offered online.

350 Nutrition (3)

Prerequisites: CHEM 111 or equivalent course and junior or senior standing. Concepts of nutrition as they relate to nutritional needs, practices and problems throughout the life cycle. Nutritional counseling and education of individuals/groups toward health promotion and disease prevention. Open to non-nursing majors. One or more sections offered online. (Same as NURS 350)

353 Physical Activity and Lifelong Well-Being (3)

(Same as KNES 353)

358 Contemporary Issues in Children's Health (3)

Prerequisite: junior or senior standing. Overview of common causes of interrelationships between and prevention of morbidity and mortality among children and youth; Preventive and promotive health concepts and practices; connections between health and learning.

400 Program Design in Kinesiology and Health Promotion (3)

Prerequisite: KNES 202 or HESC 220. Provides skills necessary for developing, implementing and evaluating human movement and/or health promotion programs for specific target populations.

401 Epidemiology (3)

Prerequisites: HESC 220 and HESC 349. Application of epidemiologic procedures to the understanding of the occurrence and control of infectious and chronic diseases, mental illness, environmental health hazards, accidents and geriatric problems. One or more sections offered online.

405 Worksite Injury Prevention and Rehabilitation (3)

Prerequisite: KNES 210 or HESC 220. How work style, equipment and environment contribute to worksite musculoskeletal injuries. Strategies that can minimize human error, injuries, discomfort and dissatisfaction through injury prevention and rehabilitation of the worker. (Same as KNES 405).

410 Community Health Education (3)

Prerequisites: HESC 220 and junior or senior standing. Multiple settings for community health education practice and professional roles and skills that are required for health educators. Identification of community health education concepts with application to various segments of the nation's health. One or more sections offered online.

411 Promoting Health in Multicultural Populations (3)

Prerequisite: HESC 220. Impact of cultural variables on health/illness. Current and potential strategies to improve health care delivery to ethnic groups. Identification of cultural competence skills that are essential for health educators.

415 Environmental Health (3)

Prerequisite: HESC 220. Overview of environmental concerns as they relate to human health. How environmental factors are involved in the transmission and prevention of diseases and health hazards resulting from exposures.

416 Global Issues in Environmental Health (3)

Prerequisites: HESC 220 and completion of G.E. Category B.2. Environmental factors such as air pollution, population dynamics, urbanization and energy production that influence human and ecological health on the global scale. Methods of control to prevent diseases from environmental agents.

420 Chronic Disease Epidemiology (3)

Prerequisite: HESC 220. Discussion of areas in chronic disease epidemiology, the leading causes of death and disability and the risk factors related to causes and the prevention of disease. May be repeated once for credit.

421 Infectious Disease Epidemiology (3)

Prerequisite: HESC 401. Applies epidemiological concepts to the study and control of infectious disease in human populations. Epidemiologic profile, including agents, modes of transmission, occurrence, clinical characteristics and prevention methods of specific infectious disease.

430 Health Psychophysiology I (3)

Prerequisites: BIOL/KNES 210, PSYC 101 and two 300-level psychology courses. History, theory, research, physiology and applications of biofeedback and other self-regulatory techniques. By completing HESC 430 and 431, the student will meet the requirements to sit for the Biofeedback Certification Institute of America exam.

431 Health Psychophysiology II (3)

Prerequisites: HESC 430 and junior standing. Didactic training and lab experience in the treatment of psycho physiological disorders incorporating biofeedback therapy. Work completed will meet the practical and mentoring (supervision) requirements for Biofeedback Certification Institute of America certification in general biofeedback.

440 Determinants of Health Behavior (3)

Prerequisite: HESC 220 or KNES 202. Contemporary research on the health effect of human behavior. Introduction to theoretical foundations and practical applications of behavior in the context of health: physical, psychological, cultural and social health. Current issues and theories of health behavior.

450 Applied Health Promotion in Aging Populations (3)

Prerequisite: HESC 220 or graduate standing. Promotion/risk reduction program content, development, implementation and evaluation. Topics include weight control, stress management, substance abuse, physical fitness and accident prevention. One or more sections offered online.

455 Designing Health Education Curricula (3)

Prerequisite: HESC 220 or graduate standing. Theory and skills necessary to develop curriculum based on analysis of individual, community and societal needs and interests. One or more sections offered online.

460 Worksite Health Promotion (3)

Prerequisite: HESC 220 or KNES 202. Philosophy, rationale and guidelines for developing health promotion programs in the corporate setting. Unique considerations in assessing needs, planning and implementing programs, evaluating effectiveness and coordinating activities in the workplace are discussed. (Same as KNES 460)

461 Occupational Health and Safety (3)

Prerequisite: HESC 220 or KNES 202. Occupational health principles, including anticipation, recognition, evaluation and control of occupational hazards are presented to heighten awareness of workplace hazards on human health. Occupational health laws, regulations and methods of compliance.

462 Environmental Toxicology and Health (3)

Prerequisite: HESC 220 and completion of G.E. Category B.1. Fundamental toxicological concepts, including absorption, distribution, storage, biotransformation and elimination of toxicants, target organ toxicity and risk assessment. Toxicological effects of environmental agents such as pesticides, industrial chemicals, household chemicals and food contaminants.

463 Air Pollution and Health (3)

Prerequisite: HESC 220 and completion of G.E. Category B.2. Health effects of air pollutants on local, regional and global scales. Health effects of urban smog, particulate matter, indoor, outdoor and occupational exposures. Health implications from global warming, ozone-depletion and acid rain.

465 Introduction to International Health (3)

Prerequisite: HESC 220. Issues in international health, emphasizing core disease conditions. Leading causes of death and disability within an international context, as well as programmatic and policy responses to improve international health.

475 Health Science Planning, Research and Evaluation (3)

Prerequisites: HESC 220, 349, 401. Identification and application of concepts related to Health Science planning, research and evaluation. Analysis of planning and research designs applicable to health professionals, as well as tools for measurement of health status at individual, community, national levels.

481 Globalization and Health (3)

Prerequisite: HESC 220. Health effects of globalization. Health concerns arising from political, economic and social interconnectedness and the need to find common solutions to ensure human health worldwide.

494 Health Science Practicum (1)

Corequisite: HESC 220. A requirement for Health Science majors offering an opportunity to plan, implement and evaluate special community-based projects under faculty supervision. May be repeated for six units maximum. Credit/no credit only.

495 Internship in Health Science (3)

Prerequisites: HESC 220, all 400-level classes except 475, senior standing. Supervised observation and field experience in community health settings as conducted by government, voluntary, professional or industrial/corporate organizations. (May be repeated one time.)

499 Independent Study (1-3)

Prerequisites: minimum of 15 upper-division HESC courses completed and junior or senior standing. Topics based on a study plan prepared in cooperation with a faculty supervisor. Culminates in a paper, project, comprehensive examination or performance. Application forms must be completed and approved prior to enrollment. Maximum of three units in any one semester; may be repeated once.

500 Issues in Public Health (3)

Prerequisite: admission to MPH program. Historical perspectives, definitions and discussion of current public health issues. Prepares public health professionals to draw on knowledge and skills from a variety of disciplines to define, critically assess, evaluate and resolve public health problems.

501 Advanced Methods in Epidemiology (3)

Prerequisite: admission to MPH program. Advanced application of epidemiologic procedures to the understanding of the occurrence and control of diseases and other health problems. Emphasizes study design, data quality, statistical analysis and causal inference.

508 Statistical Methods in Health Science (3)

Prerequisite: graduate status. Statistical theory, data collection procedures, techniques for analysis and interpretation of data.

510 Research Methods in Health Science (3)

Prerequisites: graduate status, HESC 508. Fundamental tools of research. Types of research, process of scientific inquiry and critical analysis of research. Topic selection and development of a research.

515 Advanced Environmental Health (3)

Prerequisite: admission to MPH program. Ecological impacts of human activities and the need to control factors that are harmful to human health. A framework is provided for investigation/management of health hazards. Principles of environmental health emphasizes the relationships between population, natural resources, disease, toxicology and pollution.

520 Advanced Topics in Community Health (3)

Prerequisite: admission to the MPH program. Theories, principles, planning and intervention strategies and evaluation approaches relevant to current community health promotion programs in the United States.

524 Public Health Administration (3)

Prerequisite: admission to MPH program. Principles, practices and skills essential to successful public health administration. U.S. health care system and factors that shape it. Public health services and administration, patterns of diseases, managed care, ethics and quality of care.

525 Alternative and Complementary Medicine (3)

Prerequisite: graduate standing. Role of alternative medicine in health behavior, disease, treatment, coping and healing. Its history, philosophy, concepts, development and how each of its disciplines fits in the larger scheme of Western medicine.

535 Program Planning and Evaluation (3)

Prerequisite: graduate standing. Provides comprehensive theories and methods for planning and evaluating health promotion programs. Techniques for collecting and analyzing quantitative and qualitative data. Skills for measuring effectiveness of health promotion programs.

540 Advanced Study in Health Promotion and Disease Prevention (3)

Prerequisite: HESC 440 or equivalent. Psychological, social, ecological, economic and political theories relevant to the mission and process of health promotion. Application of behavioral change techniques and health education methodology to health promotion targeting individuals and whole communities.

545 Instructional Methodologies for Health Education (3)

Prerequisite: admission to MPH program. Develops ability to select and implement learner-centered instructional strategies designed to facilitate health behavior change for individuals in group settings. Instructional strategies appropriate for sensitive health-related content, the relationship of instructional strategies to behavioral outcomes and adult learning theories.

550 Graduate Internship (3-6)

Prerequisites: graduate status, consent of faculty sponsor, field supervisor, field coordinator and chair. On-the-job training experiences supervised by a fully trained practitioner. Minimum of 120 hours per semester plus conferences with faculty sponsor. Application forms must be completed and approved prior to enrollment. Upon completion of the internship, a written evaluation must be submitted. Not open to students on, or subject to, academic probation.

558 Advanced Study of School Health Education (3)

Prerequisite: enrollment in fifth-year program. Advanced course designed to facilitate delivery of comprehensive school health education. Strategies for personal, classroom and school safety. Application of state/federal laws pertaining to health and safety will be evaluated. One or more sections offered online.

597 Project (3)

Prerequisites: graduate classified status, successful completion of an oral presentation of the project and signature of all committee members on or before the census date of the semester in which the student elects to enroll. Directed independent inquiry. Not open to students on, or subject to, academic probation.

598 Thesis (3)

Prerequisites: graduate classified status, successful completion of an oral presentation of the thesis and signatures of all committee members on or before the census date of the semester in which the student elects to enroll. Student will select and have approved a research proposal, conduct the research and prepare a formal analysis and report. May be repeated. Not open to students on, or subject to, academic probation.

599 Graduate Independent Research (1-3)

Prerequisites: graduate status and consent of the faculty adviser and chair. Student research in a specific area of public health. Application forms must be completed and approved prior to enrollment. Upon completion of the research, a written report must be submitted. Not open to students on, or subject to, academic probation. Maximum of three units in any one semester; may be repeated once.



History

College of Humanities and Social Sciences

INTRODUCTION

Historians engage in systematic study of the human past in order to discover meaning for people in the present. The student of history may draw upon the subject matter and methods of many academic disciplines. Thus, social history employs the methods of the social sciences, including quantitative analysis, in examining social movements and issues in the past; psycho-history utilizes the approaches of psychology in the study of the behavior of historically significant individuals and groups; and the development of the various areas of human intellectual and cultural activity, for instance, the arts and sciences, are studied to inform us of how and why people have thought as they did.

Lower-division survey courses are designed to convey the broad sweep of past human events and introduce the student to the study of causation and historical source materials. Aspects of the philosophy and methodology of history and the mechanics of writing historical essays are addressed in HIST 300A and 300B. The study, in greater depth, of specialized historical topics comprises the bulk of the upper-division offerings of the department. History majors are required to take HIST 490T, a senior seminar on a special topic in which they are expected to write an original historical essay based chiefly upon the analysis of historical materials that date from the time of the events studied.

The history major is useful for students who: (1) seek a broad liberal arts education with the option to choose more specialized study by geographical region, epoch and focus of inquiry (cultural, social, etc.); (2) plan a career in government service, including positions in United States Government agencies and international organizations overseas; (3) in business where writing, research and people skills are important; (4) pursue a career in private, nonprofit organizations that may involve research and service organizations, i.e., archives, museums and libraries; (5) desire to study law; (6) intend to prepare for primary or secondary school teaching; or (7) intend to work for advanced degrees in history in preparation for college teaching. The department is committed to the university's missions and goals where learning is preeminent.

LEARNING GOALS AND STUDENT LEARNING OUTCOMES

Bachelor of Arts in History

The following goals and student learning outcomes apply to students pursuing the B.A. in History:

Knowledge

- Demonstrate knowledge of historical facts, themes, and ideas
- Summarize accurately and concisely other historians' arguments

Effective Written and Oral Communication

- Demonstrate the ability to effectively communicate historical knowledge and reasoning both orally and in writing

DEPARTMENT CHAIR

William W. Haddad

DEPARTMENT OFFICE/WEBSITE

Humanities 815F

657-278-3712

<http://hss.fullerton.edu/history>

PROGRAMS OFFERED

Bachelor of Arts in History

Minor in History

Master of Arts in History

FACULTY

Gordon Bakken, Gayle Brunelle,
Jochen Burgtorf, Benjamin Cawthra,
Kristine Dennehy, Nancy Fitch, Natalie
Fousekis, Cora Granata, William W.
Haddad, Volker Janssen, Steven Jobbitt,
Jonathan Markley, Robert McLain,
Maged S.A. Mikhail, Stephen Neufeld,
Mougo Nyaggah, Raymond Rast,
Jasamin Rostam-Kolayi, Lynn Sargeant,
Jessica R. Stern, Laichen Sun, Lisa Tran,
Allison Varzally, Philippe Zcair

- Demonstrate the ability to comprehend, evaluate, analyze, and synthesize information from a variety of primary and secondary sources, including written sources, images, film, and oral histories

Analysis, Evaluation, and Synthesis

- Differentiate between and properly identify the topic, purpose, and thesis in a work of historical writing
- Differentiate between evidence and interpretation in a work of historical writing
- Differentiate within the context of a piece of historical writing between primary and secondary sources
- Critically analyze how those sources are used by historians to support their arguments
- Describe and evaluate the methodological approach employed in a piece of historical writing as well as its theoretical underpinnings
- Evaluate the overall effectiveness of a piece of historical writing

Master of Arts in History

The following goals and student learning outcomes apply to students pursuing the M.A. in History:

Knowledge

- Demonstrate knowledge of historical facts, themes, and ideas
- Summarize accurately and concisely other historians' arguments
- Understand the particular methodological and theoretical approaches of historical as well as interdisciplinary scholarship

Effective Written and Oral Communication

- Demonstrate the ability to effectively communicate historical knowledge and reasoning both orally and in writing
- Demonstrate the ability to comprehend, evaluate, analyze, and synthesize information from a variety of primary and secondary sources, including written sources, images, film, and oral histories
- Demonstrate the ability to articulate respective critical observations
- Demonstrate the ability to adhere to professional conventions of historical writing, including rigorous documentation

Analysis, Evaluation, and Synthesis

- Differentiate between and properly identify the topic, purpose, and thesis in a work of historical writing
- Differentiate between evidence and interpretation in a work of historical writing
- Differentiate within the context of a piece of historical writing between primary and secondary sources
- Critically analyze how those sources are used by historians to support their arguments
- Describe and evaluate the methodological approach employed in a piece of historical writing as well as its theoretical underpinnings
- Evaluate the overall effectiveness of a piece of historical writing
- Contextualize historical writing both diachronically and synchronically

Pre-Professional Information

Students intending careers in government service or business should seek counsel from an adviser. Those planning to pursue graduate study in history should consult a faculty member of their choice. Those who expect to attend law school should plan their course of study with Professor Bakken.

BACHELOR OF ARTS IN HISTORY (120 UNITS)

The Bachelor of Arts in History requires 45 units in the major. A grade of "C" (2.0) or better is required in all history courses applied towards degree.

Introductory Survey Courses (12 units)

World Civilization (6 units)

HIST 110A World Civilizations to the 16th Century (3)
AND HIST 110B World Civilizations Since the
16th Century (3)

U.S. History (6 units)

HIST 170A United States to 1877 (3) AND HIST 170B
United States Since 1877 (3)
OR HIST 180 Survey of American History (3) AND
170A or 170B
OR HIST 190 Survey of American History with Emphasis on
Ethnic Minorities AND 170A or 170B

Intermediate Requirements (24 units)

HIST 300A Historical Thinking (3)
HIST 300B Historical Writing (3)

At least 6 units in three of the following four fields:

- World/Comparative History
- United States History
- European History
- Non-Western History

Advanced Requirements (9 units)

Two upper-division history electives (6)
HIST 490T Senior Research Seminar (3)

MINOR IN HISTORY (24 UNITS)

The minor in history, undertaken in consultation with a history adviser, should include a concentration in a general field.

- Lower-division coursework - six or nine units (including general education)
- Upper-division coursework - 15 or 18 units (including HIST 300A)

To complete 24 units, the student has the option of taking the last three units either in the introductory requirements or the upper-division coursework.

MASTER OF ARTS IN HISTORY (30 UNITS)

The Master of Arts degree in history is designed to provide a course of study for those whose interests are in teaching, business, government service and the professions, as well as for personal enrichment. It offers all the basic requirements for those who intend to pursue a doctoral degree upon the completion of their study at California State University, Fullerton.

Prerequisites

Applicants to the master's program must first fulfill all requirements for admission to graduate standing in the university. A student must have a baccalaureate degree from an accredited institution with a grade-point average of at least 3.0 in the last 60 semester units and a 3.0 grade-point average in upper-division history courses. Only those who have at least a 3.5 GPA in upper-division history courses may request an exemption. After fulfilling the university requirements, the applicant's records are sent to the History Department's graduate coordinator for additional evaluation. Students with deficiencies will be considered for admission only after they have completed courses approved by the coordinator.

STUDY PLAN

Each student drafts his or her study plan with the graduate coordinator and an adviser in the area of specialization during the first semester of study. A study plan must be filed after nine units of coursework are completed. Three plans are offered for completion of the master's program.

Plan I

Student develops one specific field of interest and writes a thesis or project (with an oral examination taken before the final draft).

Required History Courses (9 units)

HIST 501 Theory and History (3)

HIST 521T Directed Readings Seminar in Fields of European History (3)

OR HIST 551T Directed Readings Seminar – World and Comparative History (3)

OR HIST 571T Directed Readings Seminar in Fields of American History (3)

HIST 522 Seminar in European History (3)

OR HIST 552T Seminar in World and Comparative History (3)

OR HIST 572 Seminar in American History (3)

Electives (15 units)

May be taken in 400-level or graduate courses related to the study plan, at least one of which must be taken in history and one of which must be a 500-level course.

Culminating Experience (6 units)

HIST 598 Thesis (6)

OR HIST 597 History Project (6)

Plan II

Student develops specializations and takes comprehensive examinations in two of the following fields: 1) American; 2) European; 3) Latin American; Asian, African, Middle Eastern; or 4) World History.

Required History Courses (9 units)

HIST 501 Theory and History (3)

HIST 521T Directed Readings Seminar in Fields of European History (3)

OR HIST 551T Directed Readings Seminar – World and Comparative History (3)

OR HIST 571T Directed Readings Seminar in Fields of American History (3)

HIST 522 Seminar in European History (3)

OR HIST 552T Seminar in World and Comparative History (3)

OR HIST 572 Seminar in American History (3)

Electives (21 units)

Nine additional units of 500-level coursework must be taken. The remaining 12 units may be taken in 400-level or graduate courses related to the study plan, at least one of which must be taken in history.

Culminating Experience

Required and elective courses should prepare students for comprehensive exams in two fields.

Plan III

Student develops an emphasis in public history and writes a thesis or project (with an oral examination taken before the final draft).

Required History Courses (9 units)

HIST 501 Theory and History (3)

HIST 506 Seminar in Public History (3)

HIST 521T Directed Readings Seminar in Fields of European History (3)

OR HIST 551T Directed Readings Seminar – World and Comparative History (3)

OR HIST 571T Directed Readings Seminar in Fields of American History (3)

Electives (15 units)

Electives must include nine units in adviser-approved content courses, three of which must be in history, and six units from the following applied courses:

HIST 492B Introduction to Public History (3)

HIST 492A Community History (3)

HIST 493A Oral History (3)

HIST 494 History and Editing (3)

Culminating Experience (6 units)

HIST 596 Graduate Internship in History (3) and HIST 597 History Project (3)
OR HIST 597 History Project (6)
OR HIST 598 Thesis (6)

In addition to the 30 units of coursework required of all students, before advancing to candidacy a cultural skills requirement must be met. In consultation with the student's graduate adviser, this may be fulfilled in a variety of ways: 1) an examination on reading ability in a foreign language or a minimum of two courses of appropriate foreign language coursework over and above the required 30 units; 2) completion of six units of comparative studies in other departments appropriate to the student's program over and above the required 30 units; 3) an examination of courses taken in statistics; or 4) students in Plan I and Plan II may also fulfill the cultural skills requirement by taking six units of specialized coursework in public history (HIST 492A, 493A, 494) over and above the required 30 units.

For further information call the Department of History.

HISTORY COURSES

Courses are designated as HIST in the class schedule.

110A World Civilizations to the 16th Century (3)

Development of Western and non-Western civilizations from their origins to the 16th century.

110B World Civilizations Since the 16th Century (3)

Development of Western and non-Western civilizations from the 16th century to the present.

170A United States to 1877 (3)

Political, social, economic and cultural development of the United States to 1877. Old World background, rise of the new nation, sectional problems, the Civil War and Reconstruction.

170B United States Since 1877 (3)

U.S. history from the late 19th century to the present. Economic transformation, political reform movements, social, cultural and intellectual changes and the role of the United States in world affairs.

180 Survey of American History (3)

American history from prehistoric times (before 1492) to the present according to chronological time periods. Basic themes that pervade the entire sweep of the nation's history. Satisfies state requirement in U.S. History. Not available for credit to students who have completed HIST 190.

190 Survey of American History with Emphasis on Ethnic Minorities (3)

A survey of American history from prehistoric times (before 1492) to the present with special emphasis on the role of race and ethnicity. (Same as AFRO/AMST/CHIC 190). Credit will not be given for both HIST 180 and 190.

201 The History of Asian Pacific Americans (3)

Prerequisite: completion of General Education (G.E.) Category D.1. Origins and evolution of Asian American communities and cultures, with an emphasis upon the southern California region, through selected books, oral histories, films, outside speakers and excursions. (Same as AMST 201)

230 The Ascent of Man (3)

Science and technology in the development of human culture, especially the development of science in western culture since the 17th century. Scientific concepts, their emergence and the social impact of science.

300A Historical Thinking (3)

Nature of history, history of historical thought, and history's relationship to the humanities and social sciences. Seminar required of all history majors. History majors must earn at least a "C" (2.0) in this course.

300B Historical Writing (3)

Research, writing and library usage (including computer-assisted bibliographic searches) as related to history. Meets the classroom portion of the upper-division writing requirement for history majors. Seminar required of all history majors. History majors must earn at least a "C" (2.0) in this course.

310 The California Experience (3)

(Same as LBST 310)

311 World War II (3)

History of World War II: Films, documentaries, lectures and discussion.

320 Modern European History 1789 - Present (3)

Prerequisite: HIST 110B or completion of G.E. Category D.1. Major political, social, economic and cultural developments in Modern Europe. Topics include the French Revolution, industrial revolution, liberalism, socialism, nationalism, imperialism, urbanization, modernity, the World Wars, Russian Revolution, inter-war period and post-1945 period.

331 History of Science: Copernicus to the Present (3)

Prerequisite: completion of G.E. Category B.2. Science from the 16th century to the present especially the scientific revolutions of the 17th and 20th centuries and the interaction between science, technology and culture. (Same as LBST 331)

332 Concepts and Approaches in Women's History (3)

Prerequisites: HIST 110B and either HIST 170B or 180. Overview of problems, concepts, methodologies and debates that have characterized women's history in recent decades. (Same as WMST 332)

350 History of Latin American Civilization (3)

Prerequisites: completion of G.E. Category C.3 and D.1.

Social, economic, political and cultural evolution of Latin America from the European conquest to the present.

355 History of African Civilization (3)

Social, political, economic and cultural evolution of African civilizations from early times to the present. Credit will not be given for both HIST 355 and AFRO 346.

360 Modern Asia: Nationalism and Revolutionary Change (3)

Prerequisites: HIST 110B and completion of G.E. Category D.1. Modular analysis of nationalism, revolution and modernization as drawn from the experiences of the countries of China, Japan, India and Southeast Asia.

377 Women's Image in American Film (3)

Prerequisite: completion of the G.E. Category C.1. Images, symbols, visual metaphors and myths as they relate to the image of women. Change in film images will be contrasted with the changing status of women in America. Not available for graduate degree credit.

382 World War II Japanese American Evacuation (3)

Prerequisites: completion of G.E. Category D.1 and HIST 170B, 180, or 190. World War II eviction and detention of people of Japanese ancestry in the United States, pivoting on the significance of this experience in the areas of civil and human rights, cross-cultural relations and international affairs. Not available for graduate degree credit. (Same as AMST 382)

386A American Social History 1750-1860 (3)

Prerequisite: completion of G.E. Category D.3. Social history of the United States to the Civil War; reform movements, temperance, moral purity, women's rights, anti-slavery, spiritualism and their importance to the formation of a modern society.

386B American Social History 1865-1930 (3)

Prerequisite: completion of G.E. Category D.3. Social history of the United States from the Civil War; reform, social organization and values. Women's movement, censorship, divorce, the child and the limits of reform movements in an organizational society.

394 The American Civil War (3)

Prerequisite: HIST 170A or 180. History of the American Civil War. Both contemporary and current analyses of the war will be amplified by the use of films and slides.

395 A History of the First World War (3)

Prerequisite: HIST 110B. History of the Great War stressing the military, social, economic and political aspects of the war. Films, documentaries and special lectures.

400A Concepts in World History, Ancient to Early Modern (3)

Prerequisite: HIST 110A. Designed primarily for students intending to teach world history. Ways in which world history can be conceptualized. Explores such themes as nomadism, syncretism, cross-cultural trade and European diffusionism.

410 The Rise of the Atlantic World (3)

Prerequisite: HIST 110A. Main themes of the history of the Atlantic Basin, 1450-1700, including the discovery and conquest of the New World, Africans' contributions to the creation of the Atlantic world and the origins of the "plantation complex."

411A The Ethnic Empire from Imperial Russia to Post-Soviet Eurasia (3)

Prerequisites: HIST 110A OR 110B. Introduction to a major world region, Eurasia. Cooperation and competition between ethnic, religious and linguistic groups. Islam in Central Asia, oil and politics in the Caspian Basin, and persistent conflicts in the Caucasus.

411B Genocide and Ethnic Cleansing (3)

Prerequisite: HIST 110B. History of genocide and ethnic cleansing in a global context. Weekly readings and seminar discussions highlight questions of racial violence, victimhood, modernization, nation building, gender, class and the politics of memory and denial.

412A History of the Christian Church to the Reformation (1517) (3)

Prerequisite: HIST 110A or equivalent. Christian Church from its origins in the apostolic preaching through the late Middle Ages and the beginning (1517) of the Reformation in both the East and West. (Same as CPRL 412A)

412B History of the Christian Church from the Reformation to the Present (3)

Prerequisite: HIST 110B or equivalent. Western church as an institution from the Reformation (1517) to the present. Orthodoxy, Catholicism and Protestantism in historical perspective. (Same as CPRL 412B)

412C History of the Jews (3)

Prerequisite: completion of G.E. Category C.4. Jewish people from the biblical period to the present. Literature of each period, as well as the relationships that exist between the Jewish communities and the societies in which they exist. (Same as CPRL 405)

415A Classical Greece (3)

Prerequisite: HIST 110A or equivalent. Civilization of ancient Greece. Rise and flourishing of the classical city-states; literary and philosophic contributions to modern civilization.

417A Roman Republic (3)

Prerequisite: HIST 110A or equivalent. Roman social and political institutions under the republic.

417B Roman Empire (3)

Prerequisite: HIST 110A or equivalent. Roman imperial institutions and culture with attention to the rise of Christianity. (Same as CPRL 417B)

420 The Byzantine Empire (3)

Prerequisite: HIST 110A or equivalent. East Roman Empire from Constantine to the Ottoman conquest of 1453. Institutional aspects of Byzantine society: church, state, the economy, law and culture.

423A Medieval History, 300-1350 (3)

Prerequisite: HIST 110A or equivalent. Medieval civilizations – East European, West European and Islamic – from the decline of the Roman Empire to the beginning of the Hundred Year's War, with emphasis on cultural, intellectual and social history.

423C Ancient and Medieval Britain (3)

Prerequisite: HIST 110A. Britain from 5 B.C. to 1485. Constitutional, institutional and cultural aspects of Roman, Celtic, Anglo-Saxon, Norman and Plantagenet Britain.

424T Gender and Sexuality in History (3)

Prerequisites: HIST 110A and 110B, 170A and 170B, or equivalents. Variable topics in gender and sexuality in history. Historical forces that shaped masculinity and/or femininity.

425A The Renaissance (3)

Prerequisite: completion of G.E. Category D.2. Europe in the 14th and 15th centuries: development of humanism and capitalism in Italy and their impact on European culture; rise of Renaissance monarchies; the Renaissance papacy; Christian humanism; and Renaissance science and mysticism.

425B The Reformation (3)

Prerequisite: completion of G.E. Category D.2. Europe in the 16th and 17th centuries: impact of the Protestant and Catholic Reformations on European culture; the religious wars; the price revolution and; crises of the nobility; rise of absolutism; and the early modern family. (Same as CPRL 425B)

425C Society and Culture in Early Modern Europe (3)

Prerequisites: HIST 110A,B. Main themes and problems of the social and cultural history of Europe from 1450 to 1700, such as social status and class, gender, ethnicity and violence.

428A The Rise and Decline of Liberal Europe in the 19th Century (3)

Prerequisites: HIST 110A,B. Impact of industrialization, liberal political reform and new forms of consumption and production on the daily lives of men and women who lived in 19th-century Europe. Socialist, nationalist and feminist responses to social change.

429A Europe 1890-1945 (3)

Prerequisite: HIST 110B. Survey of the cultural, political and economic history of Europe, 1890-1945.

429B Europe Since 1945 (3)

Prerequisite: HIST 110B. Survey of the cultural, political and economic history of Europe since 1945.

430A Enlightenment and Revolution (3)

Prerequisites: HIST 110A,B. Impact of slavery in the French Caribbean, rise of nation states, emergence of Enlightenment thought, feminism and popular politics during the 18th century and French Revolution.

430B Zola's Paris (3)

Prerequisite: HIST 110B. Parisian history from 1830-1900, organized around the work of Emile Zola. Interdisciplinary analysis of the city, especially Haussmann's "urban renewal," the rise of consumerism and spectacles, and political affairs.

432 From Bismarck to Hitler: Modern Germany, 1870-1945 (3)

Prerequisite: HIST 110B. Social and political history of Germany from 1871 through World War II, and current historiographical debates in modern German history.

433A Tudor-Stuart England (3)

Prerequisite: HIST 110A or 110B. England from the accession of Henry VII to the Glorious Revolution. Political, institutional, ecclesiastical and cultural aspects of the period of the Tudors and Stuarts.

433B History of Modern England and Great Britain (3)

Prerequisite: HIST 110B. Modern British history (Glorious Revolution to present). Achievement of constitutional monarchy, transition from agrarian to industrial society, establishment of political democracy and the rise and fall of socialism.

434A Russia to 1801 (3)

Prerequisite: completion of G.E. Category D.2. Establishment of the Russian state at Kiev through the reign of Catherine the Great. Political, cultural and social history of medieval, early modern and imperial Russia.

434B Modern Russia and the Soviet Regime (3)

Prerequisite: completion of G.E. Category D.2. Political, cultural and social history of Late Imperial Russia and the Soviet Union. The 1905 and 1917 revolutions, their roots in 19th-century political and social changes, and the consolidation of power under the Bolshevik party. Continuity and change of Russian institutions and politics in Tsarist, Soviet and post-Soviet Russia.

435A The Holocaust (3)

Prerequisite: HIST 110B or any modern European upper-division course. Traces the history and examines the origins, implementation and results of the European-wide programs of persecution and genocide carried out by Nazi Germany and their collaborators against the Jews during the period 1933-1945. (Same as CPRL 435A)

435B Fascism, 1918-1945 (3)

Prerequisite: HIST 110B. Global phenomenon of fascism from its origins at the end of the 19th century to its “defeat” at the end of World War II, examining major and minor movements from a social, cultural and political point of view.

436A Cities in European Civilization, 1000-1915 (3)

Prerequisite: HIST 110A or 110B. Urban history of Western Europe from the revival of urban life in the High Middle Ages through WWI, with a focus on urban social and cultural evolution.

437B Gender and Sexuality in Modern European History (3)

Prerequisite: HIST 110B. Nature of masculinity and femininity as they determined and were determined by specific historical forces, the importance of the irrational and unconscious in history, and gender as a primary determinant of patterns of work and life in Europe.

437C Gender in Russia and USSR: Men, Women and the Family (3)

Prerequisite: HIST 110A or 110B. History of gender in Russian society. Analytical discussions of experiences of men and women. Familial relationships and the experiences of children in Russia and the Soviet Union.

449A Race, Ethnicity and Gender in Latin America: A History (3)

Prerequisite: HIST 110B. Issues of race, ethnicity and gender in Latin America from the 15th century to the present. Emphasizes Latin America's two largest countries: Brazil and Mexico.

449B Cuban History Through Film (3)

Prerequisite: HIST 110B. History of Cuba through film. The camera as a window into Cuban society. Major themes such as slavery, gender, Cuban-U.S. relations and the socialist revolution.

451A Colonial Period of Latin America (3)

Prerequisite: HIST 110A or equivalent. Latin America from its pre-Columbian origins to the era of the Wars of Independence. Emphasizes ethnic, social and cultural factors that characterized the colonial period.

451B 19th-Century Latin America: Era of Nation Building (3)

Prerequisite: HIST 110B or equivalent. Latin America during the 19th century (1810-1910) with emphasis on cultural and socio-political factors that were important in the creation of Latin American nations. Special focus on development of the Rio de la Plata, the Andean nations and Mexico.

451C Latin America Since 1945 (3)

Prerequisites: completion of HIST 110A,B. Political, economic, cultural and social patterns in key Latin American nations from 1945 to the present.

452 20th-Century Brazil (3)

Prerequisite: HIST 110B. Social, economic, cultural and political history of Brazil, with particular emphasis on the period since World War II.

453A History of Mexico pre-Columbian (pre 1521) through 1821 (3)

Prerequisite: HIST 110A or HIST 110B or equivalent. History of Mexico from prior to the Spanish conquest of 1521 through the wars for Independence ending in 1821.

453B History of Mexico from Independence (1821) to Modern Day (3)

Prerequisite: HIST 110A or HIST 110B or equivalent. Pivotal moments in modern Mexican history, including post-colonial nation building, Mexican-American War, Mexican Revolution of 1910, Chiapas Rebellion of the mid-1990s and 2000 elections.

458A West Africa and the African Diaspora (3)

Prerequisite: HIST 110B or equivalent. West African relationships with the African diaspora in the Americas. Issues of the origins of political conflict, economic exploitation, racism, gender, revolts, emancipation, Pan-Africanism and rights of African descendants since the 15th century. (Same as AFRO 458A)

458B Southern Africa in the 20th Century (3)

Prerequisite: HIST 110B or equivalent. Twentieth-century developments in the Union (Republic) of South Africa, Central Africa (the Rhodesias and Nyasaland) and the Portuguese colonies; the political, economic and social ramifications of race relations. (Same as AFRO 458B)

458C African History Since 1935 (3)

Prerequisite: HIST 110B or equivalent. Issues of European imperialism, settler cultures, racism and African consciousness, ethnic conflict, gender, nationalist and guerrilla liberation movements, Pan-Africanism, international relations and society development policies in Africa since 1935. (Same as AFRO 458C)

460A The Chinese Diaspora (3)

Prerequisite: HIST 110B. History of Chinese migration from the 16th century to the present; focuses on the domestic and international situations that shaped the conditions for Chinese emigration in different parts of the world.

460B Law and Order in China (3)

Prerequisites: HIST 110A, 110B. Meaning, nature and role of law, from imperial to contemporary times by examining the philosophical underpinnings and practical implications of legal traditions that have shaped the history of law in China.

461 History of China (3)

Prerequisite: HIST 110A or equivalent. Chinese history from ancient times to the middle of the 17th century; society, thought, economy and political institutions.

462B History of China (3)

Prerequisite: HIST 110B or equivalent. Chinese history from the middle of the 17th century to the 1950s. China's internal developments and foreign intrusion, the rise of modern Chinese nationalism and intellectual developments in the Republican period, and the attempts at modernization and the triumph of communism.

462C China Since 1949 (3)

Prerequisite: HIST 110B or equivalent. History of China from 1949 to the present. Communist Party, political institutions, ideology, economic modernization and foreign relations of China.

463A History of Japan (3)

Prerequisite: completion of G. E. Category D.2. Social, political and economic history of Japan until 1868, stressing the Tokugawa era.

463B History of Japan (3)

Prerequisite: HIST 110B or equivalent. Rise of the modern Japanese state, Japanese imperialism and the postwar era.

463C Themes in Korean History (3)

Prerequisites: HIST 110A,B. Chronological overview of Korean history, with an emphasis on the modern period. Thematic approach covers topics such as a state building, Confucianism, nationalism, the colonial period, the Korean War and reunification of the peninsula.

464A History of Southeast Asia to 1800 (3)

Prerequisite: HIST 110B or equivalent. Development of Southeast Asian civilizations from the earliest times to 1800, including the classical and early modern era.

464B History of Southeast Asia, 1800-present (3)

Prerequisite: HIST 110B or equivalent. Development of Southeast Asian history from 1800 to the present, including the colonial, post-colonial and contemporary period.

464C Early Vietnam (3)

Prerequisite: HIST 110A. History of Vietnam from the earliest times to c. 1850. Seeks to identify the main issues in Vietnam's early history and trace the origins of the Vietnamese civilization and its implications on the formation of Vietnamese national identity and nationalism.

464D Modern Vietnam (3)

Prerequisite: HIST 110B. History of Vietnam since 1802. Special emphasis placed on the French colonial experience, the Vietnamese struggle against the French from 1946 to 1954, and the American involvement in Vietnam.

465A History of India (3)

Prerequisite: completion of G. E. Category D.2. History of India from ancient times through the arrival of Islam, to the decline of the Mughul Empire in 18th century. Political developments, social and religious institutions: Hinduism, Buddhism, Jainism, class, caste, early impact of Europeans. Not available for graduate degree credit. (Same as CPRL 465A)

465B History of India (3)

Prerequisite: HIST 110B or equivalent. India from early activities of British in 18th century through Indian Independence in 1948. Political, economic, religious developments: crystallization of British supremacy in South Asia through the Indian Mutiny of 1857; India's struggle for independence; emergence of Gandhi and Nehru. (Same as CPRL 465B)

466A Islamic Civilization: Arab Era (3)

Prerequisite: HIST 110A or equivalent. Arab predominance in the Middle East from the rise of Islam to the Mongol invasions of the 13th century. (Same as CPRL 466A).

466B Islamic Civilization: Imperial Age (3)

Prerequisite: completion of G. E. Category D.2. Mongol invasions of the Middle East and their effects. Ottoman Turkish, Safavid Persian and Moghul Empires to 1800. (Same as CPRL 466B).

467A The Middle East in the 19th Century (3)

Prerequisite: HIST 110B or equivalent. Western penetration of the Middle East and the reaction to it, modernization, the growth of nationalist movements and revolutionary disturbances ending with World War I.

467B Contemporary Middle East History (3)

Prerequisite: HIST 110B or equivalent. Social, political and economic changes in the Middle East since World War I. The period after World War II and recent independence movements.

468A Women and Gender in Middle East History (3)

Prerequisites: HIST 110A, 110B. History of women and gender relations in Middle Eastern society and culture from the period of late antiquity to present.

468B Eastern Mediterranean 500-900 CE (3)

Prerequisite: HIST 100A. Most important historical events, social transformations and historiographic issues that pertain to the demise of the Late Roman Empire and rise of caliphal rule in the Eastern Mediterranean.

471A American Colonial Civilization (3)

Prerequisite: HIST 170A or 180. Creation and development of societies in English North America from 1492-1754; the emergence of economic, social and political patterns and structures in a maturing Anglo-American culture.

471B The United States from Colony to Nation (3)

Prerequisite: HIST 170A or 180. Social, economic, political and intellectual developments in late 18th-century America, the coming of the American Revolution, origins of American nationalism, social structure of the new nation and formation and ratification of the Constitution.

473A Jeffersonian Themes in American Society, 1800-1861 (3)

Prerequisite: completion of G. E. Category D.3. Jeffersonian values and their impact upon the social, political and cultural life of the nation.

473B Democracy on Trial, 1845-1877 (3)

Prerequisite: completion of G. E. Category D.3. America's "great national crisis" and the impact of slavery, civil war and national reconstruction upon the democratic process of the republic.

473C United States, 1876-1920 (3)

Prerequisites: HIST 170B or 180 or equivalent. Industrialization, urbanization and immigration. Reconstruction, the New South and the West. Populist and Progressive reform movements. World War I and the Red Scare.

475A United States, 1920-1960 (3)

Prerequisite: HIST 170B or 180, or equivalent. Major trends and conflicting values in domestic policies, national security policies, the economy, society and culture. Analyses of civil rights, civil liberties, parties and politics. Examination of key historiographic controversies.

475B U.S. in the 1950s (3)

Prerequisite: HIST 170A,B; or 180 and 170A or 170B; or 190 and 170A or 170B; or 180 or 190. American society, politics and culture during the Cold War era. From World War II's end, Cold War at home and abroad, and America's involvement in Vietnam War.

475C United States Since 1960 (3)

Prerequisite: HIST 170B or 180, or equivalent. U.S. History from 1960 to present, interrelating foreign and domestic policy, economic, social and cultural trends, a study of U.S. history as it is being formed.

477A Race Mixing in U.S.A. History (3)

Prerequisites: HIST 170A, 170B, 180 or 190. History of racial mixing in the United States. Experiences of interracial families and especially their mixed race progeny. Complicates understanding of racial categories and hierarchies over time.

477B Native American History (3)

Prerequisite: HIST 170A, 170B, 180 or 190. Role of Native Americans in American history. Focusing on religion, education, literature, commerce and museums to understand the interactions between Native Americans and Americans of other races and ethnicities within the context of wider historical trends.

479A The Urbanization of American Life (3)

Prerequisite: completion of G. E. Category D.3. Urban life in America; the colonial town, the western town and the industrial city.

479B U.S. Economic History to 1900 (3)

Prerequisite: Completion of G.E. Category D.3 and HIST 170B or 180. Economic origins of the American colonies, economic causes of the Revolution, the market revolution of the early 1800s, diverging regional developments in North and South, and industrialization and incorporation of America before 1900.

479C U.S. Economic History in the 20th Century (3)

Prerequisite: Completion of G.E. Category D.3 and HIST 170B or 180. The development of a mass production and consumer society, economic crisis of the 1930s, postwar prosperity, emergence of a postindustrial global economy, history of the financial market and social tensions of economic growth.

480A Development of American Law (3)

Prerequisite: HIST 170A or 170B. American law; contracts, property, commercial law, criminal law, corporations, torts, civil procedure and the legal profession.

480B American Legal and Constitutional History (3)

Prerequisite: completion of G. E. Category D.3. Legal and constitutional issues affecting the development of the U.S. Constitution, American law and government. Developments from English and colonial legal origins to constitutional problems of the post-World War II era.

480C American Military History (3)

Prerequisite: HIST 180 or equivalent. America's military experience focusing upon the democratic, industrial, managerial, mechanical, scientific and social revolutions that have molded military institutions and national policies.

480D United States Foreign Relations (3)

Prerequisite: HIST 170B or 180, or equivalent. Relations from 1900 to the present. United States as a world power in the 20th century; the search for world order and the diplomacy of the atomic age.

481A Westward Movement in the United States (3)

Prerequisite: completion of G. E. Category D.3. Expansion of the United States population and sovereignty from the eastern seaboard to the Pacific, colonial times to 1900; regional development during the frontier period.

481B History of California (3)

Prerequisite: completion of G.E. Category D.3. Political, economic and social history of California from the aboriginal inhabitants to the present; the development of contemporary institutions and the historical background of current issues.

481C The History of Orange County (3)

Prerequisite: HIST 170B or 180, or equivalent. History of Orange County. Stresses the process of urbanization.

486 United States Cultural History (3)

Prerequisite: completion of G. E. Category D.3. Cultural values, ideas and beliefs of American communities as expressed through a variety of media, including historical, literary, visual, material and aural sources.

490T Senior Research Seminar (3)

Prerequisites: HIST 300A and 300B. Directed research seminar with class discussions applied to specific topics and areas as schedule and staff allow. Original research and writing. Required of all history majors. History majors must earn at least a "C" (2.0) in this course. (Multiple enrollment permitted in different sections of the same course.)

491T Proseminar in Special Topics in History (3)

Prerequisites: HIST 110A and 110B for European and non-West courses; HIST 170A and 170B; or HIST 170A or 170B and 180; or HIST 170A or 170B and 190 for U.S. History. Intensive study of selected phases or periods of history.

492A Community History (3)

Prerequisite: completion of G. E. Category D.3. Historical development of communities in general, including the Orange County area. Techniques of gathering and processing local historical data, including oral interviews and other archival materials.

492B Introduction to Public History (3)

Prerequisite: HIST 180 or its equivalent. Applications of history to activities outside of teaching and academic research. Archival work, historic preservation, exhibit interpretation and historical research and writing in business, government and individual consulting.

492C Practicum in Public History (3)

Prerequisites: completion of G.E. Category D.2 or D.3. Hands-on experience in public history. Working as a project team, students will contribute to a public history project in collaboration with a museum, historic site, agency or organization in Southern California. Field work may be required.

493A Oral History (3)

Prerequisite: completion of G. E. Category D.3. Utilization of tape recorded interviews to document significant events in 20th-century history. Training in interviewing techniques, specific background research and equipment use, after which students conduct a number of tape-recorded interviews.

493B Oral History/Guided Autobiography (3)

Prerequisite: completion of G.E. Category D.3, core competencies or equivalents. Theories and methods of oral history and guided autobiography, and training to become professional practitioners at community and senior centers, educational institutions, historical agencies and other settings. (Same as GERO 493B)

494 History and Editing (3)

Prerequisite: HIST 300B. Techniques of editing, book and photo layout and indexing. Focuses on oral history documents, but includes other historical and technical editing. May be repeated once for credit.

498 History Internship (3)

The internship program offers work experience related to the history academic program or to areas of public and private employment where any liberal arts major is appropriate.

499 Independent Study (1-3)

Open to advanced students in history with consent of department chair. May be repeated for credit.

501 Theory and History (3)

Prerequisite: HIST 300A or equivalent. Seminar introducing philosophical issues in history as a humanistic social science, to epistemological considerations of the relationship of history to other disciplines and to new subdisciplines in history. Required for the M.A.

506 Seminar in Public History (3)

Prerequisite: consent of instructor. Seminar in sources, themes, writing and formats used by historians working outside the classroom. Content will vary with instructor and will emphasize application of historical methods to various sectors of community history. Alternative to History 572/522 requirement for M.A. Required for M.A. students pursuing the Public History Emphasis.

521T Directed Readings Seminar in Fields of European History (3)

Prerequisite: a 3-unit upper-division course in the sub-field of the offering or its equivalent. Critical examination of the literature that has been important in different fields of European history. May be repeated for credit when covering a different subfield.

522 Seminar in European History (5)

Prerequisite: HIST 501 or equivalent. Seminar in which students will utilize primary sources in writing research papers in European History. May be repeated once for credit when covering a different sub-field.

551T Directed Readings Seminar in World and Comparative History (3)

Prerequisite: a 3-unit upper-division course in world history. Variable topics reading seminar designed to offer a comprehensive background in the literature of world and comparative history. May be repeated for credit when covering a different subfield. Topics: "Cross-Cultural interaction in the Medieval World, (ca. 500-1500), "The Age of Discovery," "The Ancient World."

552T Seminar in World and Comparative History (3)

Variable topics research seminar designed to explore world and comparative history through a primary source based research paper. May be repeated for credit when covering a different subfield. Topics: "Cross-Cultural Interactions in the Medieval World, (ca. 500-1500)," "The Age of Discovery," "The Ancient World."

571T Directed Readings Seminar in Fields of American History (3)

Prerequisite: a 3-unit upper-division course in the sub-field of the offering. Critical examination of literature that has been important or influential in specific fields of American history. May be repeated for credit when covering a different sub-field.

572 Seminar in American History (3)

Prerequisite: HIST 501 or equivalent. Seminar in which students will utilize primary sources in writing research papers in American History. May be repeated once for credit when covering a different sub-field.

596 Graduate Internship in History (3)

Prerequisite: classified graduate status. Professional-level internship in historical work. Usually precedes HIST 597, Project and constitutes research phase of main graduate exercise, as well as preparation for post-graduate career. May be repeated for credit.

597 History Project (3 or 6)

Editing a significant body of primary source materials, including a critical and interpretive introduction, as well as appropriate reference and explanatory notes. Foreign sources will normally be translated into English.

598 Thesis (3 or 6)

Prerequisite: consent of instructor. May be repeated for credit.

599 Independent Graduate Research (1-3)

Open to graduate students in history with consent of department chair. May be repeated for credit.