



#### **DEPARTMENT CHAIR**

John Erickson

#### **DEPARTMENT OFFICE**

College Park 1060-2

#### **DEPARTMENT WEBSITE**

<http://business.fullerton.edu/finance>

#### **PROGRAMS OFFERED**

Bachelor of Arts in Business Administration

Concentration in Finance

Master of Business Administration

Concentration in Finance

#### **FACULTY**

Su Chan, Carolyn Chang, Donald Crane, John Erickson, Joseph Greco, Tsong-Yue Lai, Yuming Li, Weili Lu, Yun Park, Catherine Richert, Zekiye Selvili, Mark Stohs, Charles Tu, Donald Valachi, Blaine Walgren, Ko Wang

#### **ADVISERS**

The Business Advising Center, Langsdorf Hall 731, provides information on admissions, curriculum and graduation requirements, registration and grading procedures, residence and similar academic matters. In addition, advising on curriculum content and career opportunities may be obtained from the chair of the Finance Department or from:

Financial Management

Yun Park, Mark Stohs

Personal Financial Planning

Donald Crane

Real Estate

Ko Wang, Donald Valachi

Securities and Investments

Tony Lai, Yuming Li

Insurance and Financial Services

Weili Lu

International Finance

Joseph Greco

#### **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 life insurance firms. The real estate 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.

#### **Awards in Finance**

Finance Outstanding Service Award

Finance Outstanding Student Award

Financial Executives Award

Peter M. Mlynaryk Outstanding Real Estate Student Award

John Nichols Investment Trust Award

9 ERZ/STARZ Target of Management Scholarships

Edward D'Cunha

Mercury Insurance Group

Pacific Life

Golden Eagle

AAA

Rims

ISO

Chen-da Su Insurance Award

Prudential

#### **BACHELOR OF ARTS IN BUSINESS ADMINISTRATION**

See "Business Administration, Finance Concentration."

#### **MASTER OF BUSINESS ADMINISTRATION**

See "Business Administration, MBA Specialist Plan"

#### **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. Also examines the 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: Info Systems/Dec Sci 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 and capital structure management; corporate financial decisions in an international environment.

### 331 Working Capital Management and Computer Applications (3)

Prerequisite: Finance 320. Analysis of working capital management and policy. Use of available software programs and financial models in the management of cash and short-term securities; the management of accounts receivable and inventories; financial forecasting; and short-term financing.

### 332 Theory of Corporate Finance (3)

Prerequisite: Finance 320. Risk and return analysis. An introduction to the capital asset and arbitrage pricing models. Analysis of capital budgeting, real options, use of capital structure, dividend policy, leasing, mergers and divestitures.



### 335 Financial Analysis for Investors and Lenders (3)

Prerequisite: Finance 320. Interpretation of financial statements from the perspective of both the financial analyst and the creditor. Emphasis on the economic meaning of financial statement data for the purpose of valuing the firm's securities.

### 340 Introduction to Investments (3)

Prerequisite: Finance 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: Finance 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: Finance 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: Finance 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. Emphasis on secondary mortgage markets, securitization and derivative securities.

### 353 Real Estate Valuation (3)

Prerequisite: Finance 351. A comprehensive coverage of the basic concepts and principles of real estate valuation. Emphasis is placed on the use of the three approaches to valuation for the appraisal of both residential and income-producing properties. The role of valuation in real estate investment. Government regulation of appraisers.

### 355 Real Estate Investment Analysis (3)

Prerequisite: Finance 320. 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: Finance 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: Finance 320. Financing problems of the multinational business. The 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.

### 371 Export-Import Financing (3)

Prerequisite: Finance 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: Finance 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 & Practice of Personal Financial Planning (3)

Prerequisite: Finance 320. Developing, implementing and monitoring comprehensive personal financial plans. Includes risk management, investments, taxation, retirement and estate planning, as well as professional practices.

#### **411 Retirement and Estate Planning (3)**

Prerequisite: Finance 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: Finance 320. The 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: Finance 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: Finance 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.

#### **442 Advanced Investment Analysis (3)**

Prerequisites: Finance 340 and Info Sys/Decision Sci 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 will be emphasized. Students may not receive credit for both Finance 442 and 541.

#### **444 Options and Futures (3)**

Prerequisite: Finance 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: Finance 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.

#### **456 Property Development and Management (3)**

Prerequisite: Finance 351. Decision making in the property development process – from raw land to marketing and management of the completed product. Policy formulation and implementation, project feasibility analysis, financial analysis, computer assisted analysis; case studies.

#### **461 Business Property and Liability Risk Management (3)**

Prerequisite: Finance 360. Course covers the 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: Finance 360. Course covers the 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.

#### **495 Internship (1-3)**

Prerequisites: Finance 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: Finance 320 and consent of the instructor and 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)**

Prerequisites: Accounting 510 and classified CBE status. The methodology of financial management. The primary tools for financial analysis, long-term investment decisions, evaluation and working capital management. International applications.

#### **523 Seminar in Corporate Financial Management (3)**

Prerequisites: Finance 517 or equivalent and classified CBE status. The analysis of the financial decision-making process through case studies and seminar presentations. Current financial theory and models. International applications.

#### **533 Seminar in Financial Administration (3)**

Prerequisites: Finance 523 and classified CBE 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.

#### **540 Seminar in Financial Markets (3)**

Prerequisites: Finance 517 or equivalent and classified CBE status. Structure and operation of major financial institutions; portfolio composition, price-cost problems, and market behavior; analysis of financial intermediation and interrelation of financial institutions and markets.

#### **541 Seminar in Investment Management (3)**

Prerequisites: Finance 517 or equivalent and classified CBE 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 Finance 442 and 541.

**543 Entrepreneurial Finance (3)**

Prerequisites: Finance 517, Accounting 510 and Accounting 511.

This course deals with 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 investment and managing risk.

**551 Seminar in Real Estate Investment (3)**

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

**570 Seminar in International Financial Management (3)**

Prerequisites: Finance 517 or equivalent and classified CBE status. The financial problems of the multinational firm. International financing instruments, capital investment decisions, and constraints on the profitability of multinational businesses.

**597 Project (3)**

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

**DEPARTMENT CHAIR**

William Lloyd

**DEPARTMENT OFFICE**

Humanities 420A

**DEPARTMENT WEBSITE**

<http://geography.fullerton.edu/>

**PROGRAMS OFFERED**

Bachelor of Arts in Geography

Minor in Geography

Master of Arts in Geography

**FACULTY**

John Carroll, Mark Drayse, Wayne Engstrom, Deborah Feder, Gary Hannes, William Lloyd, Jon Taylor, Robert Voeks, Barbara Weightman, Robert Young

**ADVISERS**

Undergraduate: Wayne Engstrom

Graduate: Barbara Weightman

**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. Geography graduates find rewarding careers in environmental analysis and planning, business, government agencies and education.

**International Learning Opportunities in Geography**

The Department of Geography is strongly committed to providing students with an international perspective. Geography 100 Global Geography offers a broad overview of the major countries and regions of the earth. Upper-division courses in Latin America (Geography 333), Europe (Geography 336), Asia (Geography 340) and Africa (Geography 344) offer an opportunity for in-depth study of specific regions. Finally, many other courses (Geography 120 - Global Environmental Problems and Geography 360 Geography of the World's Economics, for example), include a strong international emphasis. In recent years, members of the geography faculty have conducted fieldwork in Asia, South America and Europe.

**BACHELOR OF ARTS IN GEOGRAPHY****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 (714-278-7130) 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 School of Education (714-278-3411) to obtain information on attending an overview presentation.

The Bachelor of Arts in Geography requires a minimum of 120 units which includes courses for the major, General Education, all University requirements, and free electives.

The major consists of at least 39 units of geography, of which at least 21 units must be in upper-division courses. Students may satisfy some requirements with equivalent course work taken at other institutions. Each course counted toward the major must be completed with a grade of C or higher. Students are encouraged to take additional geography courses beyond the minimum required for the major.

**Career Emphasis**

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.

**Major in Geography**

The major consists of a total of 39 units of course work.

*Lower-Division Core (15 units)*

- Geography 100 Global Geography
- Geography 110 Physical Geography
- Geography 160 Human Geography
- Geography 281 Map Making with GIS

Three additional units from courses numbered 280 to 289.

*Environmental Geography (3 units)*

- Geography 329 Cities and Nature
- OR Geography 350 Nature and Society

*Human Geography (3 units)*

- Geography 357 Spatial Behavior
- OR Geography 360 Geography of the World's Economies
- OR Geography 370 Cities and Suburbs

*Physical Geography (3 units)*

- Geography 312 Geomorphology
- OR Geography 323 Weather and Climate
- OR Geography 325 Natural Vegetation

*Regional Geography (3 units)*

Three units from courses numbered 330 to 349.



*Advanced Geography (6 units)*

Six units from courses numbered 400 to 489.

*Geography Elective (3 units)*

Three units lower or upper-division geography not used to satisfy any other requirement.

*Upper-Division Writing Requirement (3 units)*

- English 301 Advanced College Writing
- OR English 360 Scientific and Technical Writing

**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:

- Geography 422 Regional Climatology
- Geography 425 Tropical Rainforests
- Geography 426 The Coastal Environment
- Geography 475 Interpretation of Urban Landscapes

Geography 478 Urban Planning Principles

Geography 488 Land Use Analysis

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**

The emphasis consists of a total of 39 units of course work.

**Lower-Division Core (15 units)**

- Geography 100 Global Geography
- Geography 110 Physical Geography
- Geography 160 Human Geography
- Geography 281 Map Making with GIS

Three additional units from courses numbered 280 to 289.

**Environmental Geography (3 units)**

Geography 350 Nature and Society

**Human Geography (3 units)**

- Geography 357 Spatial Behavior
- OR Geography 360 Geography of the World's Economies
- OR Geography 370 Cities and Suburbs

**Physical Geography (6 units)**

- Geography 329 Cities and Nature
- OR Geography 312 Geomorphology
- OR Geography 323 Weather and Climate
- OR Geography 325 Natural Vegetation

**Regional Geography (3 units)**

Three units from geography courses numbered 330 to 347.

**Advanced Geography (6 units)**

Six units from Geography 422, Geography 425, Geography 426, Geography 482, or Geography 488.

**Upper-Division Writing Requirement (3 units)**

- English 301 Advanced College Writing
- OR English 360 Scientific and Technical Writing

**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:

- Geography 422 Regional Climatology
- Geography 425 Tropical Rainforests
- Geography 426 The Coastal Environment
- Geography 488 Land Use Analysis

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

## MINOR IN GEOGRAPHY

The minor in geography serves students seeking a geographic perspective to complement their major. Interested students should take at least 21 units of geography, including Geography 100 and three units from the following (110, 120, 160, 170 or 281) and a minimum of 12 units of upper-division work. All courses counted toward the minor must be completed with a grade of C or higher. Faculty advisers are available to help students structure their minor in geography.

## MASTER OF ARTS IN GEOGRAPHY

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.

### Application Deadlines

Applications need to be postmarked no later than March 1st for the fall semester and October 1st for the spring semester. However, deadlines may be changed based upon enrollment projections. Check the university graduate studies website for current information <http://www.fullerton.edu/graduate/>

### 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 course work 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 completion of all prerequisites and removal of 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.

### Study Plan

The study plan consists of 30 units of course work distributed as follows:

### Required Courses

- Geography 500 Seminar in Geographic Research (3)
- Geography 520 Seminar in Physical Geography (3)
- Geography 550 Seminar in Human Geography (3)

Geography 500-level course (3)

Geography 599 Independent Graduate Research (3)

### Electives (12-15 units)

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

### Thesis or Comprehensive Exam (0-3 units)

Geography 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 course work 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.

### 110 Physical Geography (3)

Introduction to the major components of the physical environment including landforms, climate, natural vegetation and soils. (CAN GEOG 2)

### 120 Global Environmental Problems (3)

A 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.

### 160 Human Geography (3)

Prerequisite: completion of General Education Category III.C.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. (CAN GEOG 4)

### 170 Southern California Metropolis (3)

Prerequisite: completion of General Education category III.C.1. Geographic variations across Southern California; patterns of urban and suburban growth; interaction between the region's developed and natural environments; comparisons between metropolitan Los Angeles and other great world cities.

### **280A Interpretation of Maps & Aerial Photographs (1)**

Prerequisite: minimum of one other core course in geography (i.e., 110 or 160) or consent of instructor. The uses of maps and aerial photographs in geographic research. Types of data which can be obtained from these sources. Rudimentary measurement techniques.

### **280C Introduction to Quantitative Methods (1)**

Prerequisite: minimum of one other core course in geography (i.e., 110 or 160) or consent of instructor. Descriptive statistics in geography. Graphs, functions and equations, logarithms and exponents, and an overview of the linear regression model.

### **280G Analysis of Weather Maps (1)**

Prerequisite: minimum of one other core course in geography (i.e., 110 or 160) or consent of instructor. The use and analysis of weather maps.

### **281 Map Making with Geographic Information Systems (3)**

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

### **312 Geomorphology (3)**

Prerequisite: Geography 110, Geology 101, or consent of instructor. Landforms and the processes responsible for their evolution.

### **323 Weather and Climate (3)**

Prerequisite: Geography 110 or consent of instructor. Atmospheric elements and controls, fronts, severe weather, and climatic classification systems.

### **325 Natural Vegetation (3)**

Prerequisite: junior or senior standing. The geography of the globe's natural vegetation associations. Examines the role of plate tectonics, climate, soils, fire and humans as agents of landscape-level vegetation change.

### **329 Cities and Nature (3)**

Prerequisite: Geography 110 or consent of instructor. Overview of the impact of urbanization on land forms, climate, vegetation, and animals. Planning implications and case studies.

### **330 California Landscapes (3)**

Prerequisite: junior or senior standing. The landscapes of California, their environmental characteristics, development patterns and current problems.

### **332 United States and Canada (3)**

Prerequisite: completion of General Education Category III.C.1. The United States and Canada. The interrelated physical and cultural features that give geographic personality to the regions.

### **333 Latin America (3)**

Prerequisite: completion of General Education category III.C.1. Mexico, Central America, the Caribbean and South America. Explores the region's physical and cultural landscapes. Emphasis on nature-society problems.

### **336 Europe (3)**

Prerequisite: junior or senior standing. The basic physical and human lineaments of Europe. The elements that distinguish and give character to its major regional divisions.

### **340 Asia (3)**

Prerequisites: junior or senior standing and completion of the General Education category III.C.1. The physical, human and regional geography of Asia from Pakistan and India through Southeast Asia and the Malay Archipelago to China, Japan and Korea.

### **344 Africa (3)**

Prerequisite: junior or senior standing. The physical, human and regional geography of Africa. Saharan borderlands, East Africa and Southern Africa.

### **350 Nature and Society (3)**

Prerequisites: completion of General Education Category III.C.1 and junior or senior standing. An exploration of the interface between human systems and natural systems. The course covers a variety of 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.

### **357 Spatial Behavior (3)**

Prerequisite: junior or senior standing. A 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. An exploration of key geographic issues in uneven development, international trade, investment patterns, and the spatial integration of local and regional economies.

### **370 Cities and Suburbs (3)**

Prerequisite: junior or senior standing. 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.

### **422 Regional Climatology (3)**

Prerequisite: Geography 323 or consent of instructor. Major climatic regions of the world; the physical factors that produce climatic patterns.

### **425 Tropical Rainforests (3)**

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

### **426 The Coastal Environment (3)**

Prerequisites: Geography 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.



**452 Ecotourism (3)**

Prerequisite: senior or graduate standing. Evolution and distribution of nature-based tourism. The role of ecotourism in regional development and environmental conservation. Focus on sociocultural impacts in less developed countries.

**475 Interpretation of Urban Landscapes (3)**

Prerequisites: Geography 357 or 370 and consent of instructor. A geographic view of the city as a landscape composite of structure, space, place and experience. Emphasis is on the European and North American city.

**478 Urban Planning Principles (3)**

Prerequisite: Geography 370, Poli Sci 320, or consent of instructor. Seminar/discussion on the 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 Poli Sci 478)

**481 Geographic Information Systems: Introduction (3)**

Prerequisite: senior or graduate standing. Methods and applications of computer-assisted mapping and geographic information systems. Instructional fee. (2 hours discussion, 3 hours lab)

**482 Environmental Impact Assessment (3)**

Prerequisites: Geography 350, 431, 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.

**484 Urban Planning Methods (3)**

Prerequisite: Geography 478 or Poli Sci 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: Geography 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: Geography 481 or consent of instructor. This course covers the fundamentals of remote sensing science and digital image processing. Focus on 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)**

Prerequisites: senior standing and consent of instructor. 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 or consent of instructor. 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 or consent of instructor. 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 or consent of instructor. Survey of methodology and case studies including: experiential environments; rural landscapes; urban, social, and economic structure; Geography and public policy; and Third World development.

**575 Landscape Interpretation (3)**

Prerequisite: Geography 357, 475, or equivalent. A humanistic approach to the nature and meaning of landscape.

**597 Project (3)**

Prerequisites: Geography 500 and consent of adviser.

**598 Thesis (3)**

Prerequisites: completion of Geography 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.



#### **DEPARTMENT CHAIR**

John H. Foster

#### **DEPARTMENT OFFICE**

McCarthy Hall 254

#### **PROGRAMS OFFERED**

Bachelor of Science in Geology

Minor in Geology

Master of Science in Geology

Emphasis in Geochemistry

(under Master of Science in Chemistry)

#### **DEPARTMENT WEBSITE**

<http://geology.fullerton.edu>

#### **FACULTY**

Phillip Armstrong, David Bowman, Gerald Brem, Gaylen R. Carlson, Diane Clemens-Knott, Matthew Kirby, Jeff Knott, Richard L. Laton, John Foster, Brady Rhodes, Prem Saint

#### **ADVISERS**

Geology students must be advised before or immediately upon entering the major in order to design an efficient course progression that will meet their objectives. While enrolled, students must meet with an adviser each semester prior to registration for the following semester. The adviser will assist in scheduling of courses, selection of courses, and solving problems should any arise. To be advised, students should contact the department office for available advisers. Special advisers are available for: Geochemistry Emphasis, M.S. in Chemistry (Gene Hiegel, Department of Chemistry; Gerald Brem, Department of Geological Sciences); Earth Science Education (Gaylen Carlson, Department of Geological Sciences).

#### **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, geological 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. About 60% of all geological scientists are employed by private industry, primarily by engineering, environmental, petroleum and mining companies. Others are employed by government agencies, educational institutions and research centers.

The department has seven major areas of study within the general fields of geological sciences: geology, geochemistry (the integration of geology and chemistry), geophysics (the integration of geology and physics), hydrogeology (the integration of geology with fresh water systems), engineering geology (the integration of geology and engineering), Quaternary geology (multidisciplinary study of earth's recent past), and environmental geology (multidisciplinary study of Earth's surface). All are designed to develop an appreciation and understanding of Earth as well as to prepare students for (1) graduate studies in the geological sciences, (2) employment in industry or government, and (3) teaching.

#### **Evening Program**

The department offers an evening and weekend program of courses that satisfies requirements for the major with the exception of the field camps. Consult the department for details.

#### **Internships**

The department offers an internship program through Geological Sciences 495. This allows the student to obtain on-the-job experience in the geological sciences. Three units maximum are permitted toward the degree.

#### **Recommended Program in General Education**

The department maintains a list of preferred general education courses. A copy can be obtained by contacting the department office.

#### **BACHELOR OF SCIENCE IN GEOLOGY**

Of the 132 units required for graduation, a minimum of 48 are in geological sciences, 34 to 37 in related fields, and 39 in general education courses (other than related fields). The remaining 8 to 11 undesignated units are selected to meet particular needs of each student. To qualify for the B.S. degree, students must have a C or better in all geological sciences courses applied towards the 48 unit requirement; in addition, students must have a C average in required courses in related fields. A proficiency in a modern foreign language, or a computer language, is recommended for students who plan to continue in graduate school. Proficiency in English composition is required.

#### **Minimum Course Requirements for the Major**

Geol Sciences 101, 101L Physical Geology (3,1)

Geol Sciences 201 Earth History (4)

Geol Sciences 303A Mineralogy and Introduction to Petrology (4)

Geol Sciences 303B Igneous and Metamorphic Petrology (4)

Geol Sciences 321 Sedimentation and Stratigraphy (4)  
Geol Sciences 360 Structural Geology (4)  
Geol Sciences 380 Geologic Field Techniques (4)  
Geol Sciences 401 Writing in the Geosciences (3)  
Geol Sciences 456 Introduction to Applied Geophysics (3)  
OR Geol Sciences 406 Geochemistry (3)  
Geol Sciences 481A Geology Field Camp I (4)  
Geol Sciences 498 Senior Thesis (1-2)

**Adviser-approved Upper-Division Geological Sciences Electives (8-9 units)**

No more than 3 units from any combination of Geol Sciences 493, 495, 496L and 499L can be counted toward meeting this 8-9 unit requirement.

(Note: Geol Sciences 310T, 376 and 420 are not accepted as credit toward meeting requirements for the major.)

**Minimum Requirements in Related Fields (Nine courses required, 34-37 units)**

Biological Science 101 Elements of Biology (3)  
OR 131 Principles of Biology (3)  
OR a life science course from another institution that is acceptable to CSUF and that demonstrates treatment of whole-organism-biology and concepts of evolution and ecology.  
Chemistry 120A and 120B General Chemistry (5,5)  
Computer Sci 103 Introduction to Personal Computer Applications (3)  
OR Computer Sci 121 Programming Concepts (4)  
OR Engineering 205 Digital Computation (3)  
OR Geography 481 Automated Cartography (3)  
Mathematics 150A and 150B Analytical Geometry and Calculus (4,4).  
Physics 225, 225L Fundamental Physics - Mechanics (3,1)  
and either  
226, 226L Fundamental Physics - Electricity & Magnetism (3,1)  
OR 227, 227L Fundamental Physics - Waves, Optics & Modern Physics (3,1).  
Alternatively, 211, 211L, 212, 212L Elementary Physics (3,1,3,1), with consent of adviser.  
One additional semester course selected with approval of adviser from courses such as the following:  
Biology: 316, 401, 406, 419, 461  
Chemistry: 301A, 315, 325, 361A  
Computer Science: 203, 241  
Engineering: 102, 202, 301, 324, 436, 441  
Geography: 312, 481, 485  
Mathematics: 250A, 250B, 338  
Physics: 226, 226L, 227, 227L, 310, 320, 330  
Science- or Engineering-based transferable extension certificate courses from other universities.

**Undesignated Units (8-11 units required)**

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

**General Education (39 units required, other than related fields)**

See University catalog and consult your adviser for proper course selection.

**MINOR IN GEOLOGICAL SCIENCES**

A minimum of 20 units in geological sciences courses, of which at least 12 must be upper-division and at least 6 of these 12 must be taken in residence, is required for a minor. The courses shall be selected by the student in consultation with an adviser. Prospective teachers should include courses in physical geology, earth history, meteorology, oceanography, mineralogy and petrology. Geological Sciences 140, 310 and 376 are not acceptable as part of the 20 units.

**CREDENTIAL PROGRAM**

The bachelor's degree in Geology may be effectively combined with subject matter studies necessary for the single subject teaching credential in science. Undergraduates are encouraged to work with the department adviser and/or the Center for Careers in Teaching (714-278-7130) as early as possible in their academic careers to plan efficient course selections for general education, the major and electives. Postbaccalaureate students need to contact the Admission to Teacher Education office in the School of Education (714-278-3411) to obtain information on attending an overview presentation and orientation and then contact the department credential adviser.

**EMPHASIS IN GEOCHEMISTRY**

Offered jointly by the Departments of Chemistry and Biochemistry and Geological Sciences. Contact the graduate program adviser in the Department of Chemistry and Biochemistry for further information.

**GEOLOGICAL SCIENCES COURSES**

For all courses, prerequisites may be waived if the instructor is satisfied that the student is qualified to take the course.

All lower-division (100-200 level) courses are offered each semester. The department offers Geological Sciences 303A, 321, and 380 each fall, and Geological Sciences 303B, 360, 335, and 401 each spring. Geological Sciences 481A is offered each summer, and the remaining courses are offered on a three- to four-semester rotation. A schedule of projected class offerings is available from the department.

**MASTER OF SCIENCE IN GEOLOGY**

The program 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. No matter how graduating students may choose to apply this knowledge, the sound geologic basis provided by the master of science degree will enable them to meet new intellectual challenges in their future professional or academic careers. The program is sufficiently flexible to meet a student's interest in the application of geology to the solution of environmental, hydrogeologic or engineering geologic problems facing our society.

The program is designed to prepare students for (a) employment in all fields of geology, (b) teaching at the elementary, secondary and community college levels, and/or (c) doctoral study in the geosciences or related fields.

### 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 (4.0) 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: (1) a bachelor's degree in geology at Cal State Fullerton or another accredited institution with a grade-point average of 3.0 in geology courses (which must include a minimum of 8 semester units of field geology) 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; (2) satisfactory performance on the Graduate Record Examination Aptitude Test; (3) two letters of recommendation; (4) completion of the departmental application; and (5) 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 nine units of adviser- and graduate- committee-approved postgraduate studies in geology, mathematics, chemistry or physics, with grades of B or better.

Students with a degree in a related field and/or substantial

subject deficiencies are encouraged to apply. Such applicants may be accepted to the university as unclassified post-baccalaureate students if they meet the university requirements. An unclassified student may later qualify for admission to conditionally classified standing by completing all courses recommended by the Department Graduate Committee, and by maintaining a 3.0 grade-point-average in geology and a 2.5 grade-point-average in related science and mathematics courses.

### Application Deadlines

Financial aid (teaching and research assistantships) are ordinarily awarded only to fall semester applicants. Students who wish to be considered for financial aid must have their application received by February 15 for admission to the following fall semester.

All other applications need to be postmarked no later than March 1st for the fall semester and October 1st for the spring semester.

However, deadlines may be changed based upon enrollment projections. Check the university graduate studies website for current information at <http://www.fullerton.edu/graduate/>.

### 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 of Academic Programs.

Students must meet the Graduate Level Writing Requirement as described in this catalog under "Graduate Regulations". Students will meet this requirement by taking Geology 501A,B Research Methods in Geology.

### Advancement Advanced 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 contain a minimum of 31 units and be approved by the Graduate Advisor. At least 21 units must be at the graduate level; a maximum of 9 units may be 400 level. A minimum grade-point average for courses satisfying the study plan is 3.0. The study plan must consist of the following:

#### Required Courses (13 units)

- Geol 500 Advanced Concepts in Geology (4)
- Geol 501 A,B Research Methods in Geology (1,1)
- Geol 590 Graduate Seminar (1)
- Geol 598 Thesis (3)
- Geol 599L Independent Graduate Research (3)

An oral defense of the thesis is required.

#### Breadth Courses (3-6 units)

400- or 500-level course offered by departments outside of Geological Sciences. Courses may be taken from departments or programs such as, but not restricted to, Biology, Chemistry and Biochemistry, Physics, Mathematics, Geography, Civil Engineering or Environmental Studies. Course selection will be dependent on student's academic objectives and must be approved by the Graduate/ Thesis Adviser.

#### Focus Courses in Applied Geology (12-15 units)

Adviser-approved 400- or 500-level courses offered by the department. Course selection will be dependent on student's academic objectives.



## **COURSES IN GEOLOGY**

### **101 Physical Geology (3)**

Prerequisite: high school chemistry or physics, or equivalent. The physical nature of the planet Earth, the genesis of rocks and minerals, erosion processes and their effects. (101 & 101L=CAN GEOL 2)

### **101H Physical Geology (Honors) (3)**

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

### **101L Physical Geology Laboratory (1)**

Corequisite: Geological Sciences 101. Laboratory on minerals, rocks, earthquakes, and map and aerial photographic interpretation. (3 hours laboratory or field trip) (101 & 101L=CAN GEOL 2)

### **101LH Physical Geology Laboratory (Honors) (1)**

Corequisite: Geological Sciences 101 or 101H. Laboratory on minerals, rocks, earthquakes, and map and aerial photographic interpretation. (3 hours laboratory and weekend field trips)

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

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

### **105 Field Experiences in California Geology (1)**

Prerequisite: Geology 101. Students will participate in three field trips that will examine the rich geology of California. Students will read and discuss topical papers and make presentations on selected topics. Weekend field trips are required.

### **140 Earth's Atmosphere (3)**

The composition, structure and circulation of the atmosphere; the origins of storms and other weather disturbances.

### **201 Earth History (4)**

Prerequisites: Geological Sciences 101, 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, 6 hours laboratory, field trips) (CAN GEOL 4)

### **303A Mineralogy and Introduction to Petrology (4)**

Prerequisites: Geological Sciences 101, 101L, Chemistry 120A; Prerequisite or co-requisite: Geological Sciences 201. Crystallography; origin, occurrence, composition and identification of minerals with emphasis on minerals in rocks. (2 hours lecture, 6 hours laboratory, field trips)

### **303B Igneous and Metamorphic Petrology (4)**

Prerequisites: Chemistry 120B; Geological Sciences 303A, 380; Computer Science 103. Description, classification, occurrence and origin of igneous and metamorphic rocks. (2 hours lecture, 6 hours laboratory, field trips)

### **305 Earthquake Impact on Structures (3)**

(Same as EGCE 305)

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

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. (3 hours lecture for 5, 10, or 15 weeks; optional field trips)

### **321 Sedimentation and Stratigraphy (4)**

Prerequisites: Geological Sciences 201, 303B, 380; Computer Science 103. Textural, mineralogic properties of sediments used in discrimination of depositional conditions, environments, classification of sedimentary rocks, study of stratigraphic patterns. (2 hours lecture, 6 hours laboratory, field trips)

### **322 Principles of Paleontology (3)**

Prerequisites: Geological Sciences 201; Biology 101 or 261 or equivalent. The groups of organisms that have left an important fossil record. Taxonomy, morphology and systematics, biostratigraphy, paleoecology, and evolutionary trends. (2 hours lecture, 3 hours laboratory, field trips)

### **333 General Oceanography (3)**

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

### **335 General Hydrology (3)**

Prerequisites: Geological Sciences 101; Mathematics 150A. Nature, occurrence, movement of surface and groundwater. Rainfall/runoff relation, floods, aquifer evaluation, and water quality investigation. (2 hours lecture, 3 hours laboratory, field trips)

### **340 General Meteorology (3)**

Prerequisites: Geological Sciences 101; Mathematics 150A; Physics 225, 225L or 211, 211L. Atmospheric processes, composition and structure. Radiation, thermodynamics of moist air, precipitation mechanisms, atmospheric dynamics. Map analysis and use of thermodynamic diagrams.

### **355 Earth's Interior (3)**

Prerequisites: Geological Sciences 101; Mathematics 150A; Physics 225, 225L or 211, 211L; Chemistry 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: Geological Sciences 380; Mathematics 125; Computer Science 103. 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)

### **375 Engineering Geology (3)**

Prerequisites: Geological Sciences 380; Mathematics 150A; Physics 225, 225L or 211, 211L. Engineering properties of rocks and soils; exploration techniques; analysis of geological science principles applicable to engineering problems; report preparation and professional responsibility. (2 hours lecture, 3 hours laboratory, field trips)

### **376 Applied Geology (3)**

Prerequisites: Mathematics 130, 135 or 150A; Geological Sciences 101 and one semester university-level physics recommended. 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 (4)**

Prerequisites: Geological Sciences 201; English 101; trigonometry; Computer Science 103 or equivalent recommended. Brunton compass use, measurement of stratigraphic sections, principles of topographic maps and aerial photographs and use in geologic mapping, geologic map preparation, columnar sections, cross sections and technical reports. (2 hours lecture, 6 hours field, weekends)

### **401 Writing in the Geosciences (3)**

Prerequisites: Geological Sciences 201 and 380; must be taken before Geological Sciences 481A. Preparation of publication-quality geoscience reports. Emphasis on writing clearly and concisely for a technical audience. Exercises include literature research using electronic databases, critical evaluation of published literature, original analysis of field data. Written and oral assignments. (6 hours activity; field trips)

### **404 Optical Mineralogy and Petrography(3)**

Prerequisites: Geological Sciences 303B. Principles of optical mineralogy. 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)**

Prerequisites: Geological Sciences 303B and 321, Chemistry 120B, Mathematics 150B. Basic chemical and thermodynamic principles applied to the origin and alteration of igneous, sedimentary and metamorphic rocks and economic mineral deposits.

### **420 Earth Science for Science Teachers (4)**

Prerequisites: Geological Sciences 101 and 101L plus upper-division 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)

### **423 Advanced Sedimentology and Stratigraphy (3)**

Prerequisites: Geological Sciences 303A and 321. Case histories from literature illustrate concepts, methods, and results in sedimentology/stratigraphy analysis. Field and lab work center around student research on actual problems; research to culminate in paper with professional format. (2 hours lecture, 3 hours laboratory, field trips)

### **436 Hydrogeology (3)**

Prerequisites: Geological Sciences 335, 360, 456, or equivalent. 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)

### **437 Water Quality Investigations and Control (3)**

Prerequisites: Geological Sciences 335; Chemistry 120B. Methods in sampling strategy. Evaluation of chemical data for quantitative interpretation of water quality status and trends in surface and ground water. Techniques for graphic representation, water contamination source identification and control. (2 hours lecture, 3 hours laboratory, field trips)

### **455 Earthquake Seismology (3)**

Prerequisites: Geological Sciences 101; Physics 225, 225L or 211, 211L, Mathematics 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 Introduction to Applied Geophysics (3)**

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

### **460 Regional Tectonics (3)**

Prerequisite: Geological Sciences 303B, 360; Geological Sciences 321 as prerequisite or corequisite. Discussion of recent literature on plate tectonics, tectonics of the world's major orogenic belts, and tectonics of California. (3 hours lecture, Spring-recess field trip)

### **470 Environmental Geology & Planning (4)**

Prerequisites: Geological Sciences 101, 101L or Geological Sciences 420; 401. 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 (3)**

Prerequisites: Geology 360 and 380. Study of the 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. (6 hours activity, field trips)

### **481A Geology Field Camp I (4)**

Prerequisites: Geological Sciences 303B, 321, 360, 380, and 401. Geologic field mapping, operating from a field camp under primitive conditions in an area of varying geologic complexity. Field report, map and cross-sections completed during semester following field work. Instructional fee required. (45 hours a week for four weeks during June and July, 1 hour lecture during the semester)

**481B Geology Field Camp II (3)**

Prerequisites: Geological Sciences 481A or equivalent experience and consent of instructor. Advanced geologic mapping techniques in a variety of geologic settings, operating from a field camp under primitive conditions. Field reports, maps and cross-sections required one week after completion of field work. Instructional fee required. (45 hours a week for three weeks during summer)

**481C Hydrology Field Camp (3)**

Prerequisites: Geological Sciences 335 and 481A. Geologic mapping and hydrologic mapping and techniques applied to integrated hydro-geologic 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.

**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: 20 units in geological sciences. Supervised experience in geological sciences teaching through tutoring or assisting in laboratory or field classes.

**498 Senior Thesis (1-2)**

Prerequisite: senior standing in geological sciences. Developed as an extension of an advanced course, conducted independently by the student under faculty supervision, culminating in a paper of professional quality. Two units maximum credit permitted.

**499L Independent Study (1-3)**

Independent study of a topic selected in consultation with and completed under the supervision of the instructor. May be repeated for credit.

**500 Advanced Concepts in Geology (4)**

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; 3 hours lab; 2 hours activity, field trips)

**501 Research Methods in Geology (1)**

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

**506T Topics in Geochemistry (3)**

Prerequisites: Geological Sciences 303B, Chemistry 120B, Computer Science 103, or consent of instructor. Special topics in geochemistry with emphasis on current investigations, specifically including isotope, organic, and contaminant geochemistry. May be repeated for credit with a different topic.

**510T Advanced Topics in Geology (3)**

Prerequisite: consent of instructor. Selected topics in advanced geology; recent developments and applications. May be repeated for credit with different topic including advanced structural mapping, sedimentary basin analysis, igneous petrogenesis, seismotectonics of Los Angeles basin. (2 hours lecture, 3 hours lab, field trips)

**535T Advanced Topics in Hydrogeology (3)**

Prerequisite: Geological Sciences 436. Modern techniques in hydrogeology. Topics include: groundwater modeling; contaminant hydrogeology; groundwater exploration and development; well hydraulics. May be repeated for credit with a different topic. (2 hours lecture, 3 hours lab, field trips)

**575T Advanced Topics in Engineering Geology (3)**

Prerequisite: Geological Sciences 375. Modern techniques and new advances in engineering geology. Topics include: neotectonics of southern California; soil stratigraphy; and landslide analysis. May be repeated for credit with a different topic. (2 hours lecture, 3 hours lab; field trips)

**590 Geoscience Seminar (1)**

Prerequisite: Geological Science 500, 501A. Discussion of journal publications that represent current research. Variable seminar themes such as: tectonics, stratigraphy, geophysics, geochemistry, engineering geology, hydrogeology, volcanism. May be repeated one time only with a different theme.

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

Post baccalaureate 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 (3)**

Prerequisite: approval of adviser and completion of M.S. thesis proposal that is approved by the Department Graduate Committee. Design, analysis, and presentation of a research problem culminating in a thesis for the master's degree. May be repeated once.

**599 Independent Graduate Research (1-3)**

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

**PROGRAM COORDINATOR**

Eric Solberg

**PROGRAM OFFICE**

Ruby Gerontology Center 8

**DEPARTMENT WEBSITE**

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

**PROGRAMS OFFERED**

Minor in Gerontology  
Master of Science in Gerontology  
Emphases in Gerontology  
Professional Certificate in Gerontology

**PROGRAM COUNCIL**

Pauline Abbott (Director, Institute of Gerontology)  
Tony Bell (Sociology)  
Dennis Berg (Sociology)  
Yosuke Chikamoto (Health Science)  
John Doyle (Human Services)  
Rosalie Gilford (Sociology)  
Barbara Haddad (Nursing)  
Margaret Hamilton (Extended Education)  
Sara Johnson, (Anthropology)  
Jessie Jones (Kinesiology and Health Promotion)  
Mary Joyce (Marketing)  
Thomas Klammer (College Dean)  
Robert Koch (Biology)  
Bill Larson (Student Representative)  
Shari McMahan (Kinesiology and Health Promotion)  
Karen Perell (Kinesiology and Health Promotion)  
Mary Read (Counseling)  
Carl Renold (Human Services)  
Roberta Rikli (College Dean)  
Wendy Elliott Scheinberg (Oral History)  
Susan Shoho (Institute of Gerontology)  
William Smith (Psychology)  
Eric Solberg (Coordinator, Gerontology Programs)  
Barbara Talento (Continuing Learning Experience [CLE] President)  
Joseph Weber (Sociology)  
Duana Welch (Psychology)

**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.

**ADVISEMENT**

Academic and career advisement is provided by the Coordinator of Gerontology Programs and members of the Gerontology Program Council.

Information on job and volunteer opportunities, as well as professional events in gerontology are posted near the Gerontology Program office, Ruby Gerontology Center, Room 8. Students are urged to take advantage of programs available through the Career Development and Counseling Center, Langsdorf Hall 208.

**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, and gerontology academic programs, 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.

**GERONTOLOGY AWARDS AND SCHOLARSHIPS**

The Emeriti Memorial Scholarship in Gerontology has been established to honor a full-time continuing junior, senior, or graduate student with a minor or an emphasis in gerontology. Criteria include scholastic achievement and professional purpose.

The Gerontology Program Council Award may be given to a junior/senior student with a minor in Gerontology or to a graduate student who has been accepted into the M.S. in Gerontology degree program. The criteria include active membership in the Student Association for Gerontology Education (SAGE) or Sigma Phi Omega gerontology honor society, and financial need.

The Beverly and Arnold Miller University Scholarship in Gerontology is open to continuing junior/senior students with a declared minor, emphasis, or concentration in aging or gerontology and to graduate students accepted into the M.S. in Gerontology degree program.



## STUDENT ACTIVITIES

Students interested in gerontology are encouraged to join the Student Association for Gerontology Education (SAGE) and the Gamma Kappa Chapter of Sigma Phi Omega, a national honor society. Opportunities are available to become involved in research, conferences, and community service activities. Students are also encouraged to become active in professional gerontology organizations such as the California Council on Gerontology and Geriatrics (CCGG). Applications are available at the Gerontology Program office, Ruby Gerontology Center, Room 8.

## MINOR IN GERONTOLOGY

The Gerontology minor consists of 21 units in the following areas:

### *Lower-Division Requirements (3 units)*

Sociology 133 Introduction to Gerontology (3)\*

### *Upper-Division Requirements (9 units from the following)*

Sociology 333 Sociology of Aging (3)

Psychology 362 Psychology of Aging (3)\*

Biology 306 Biology of Aging (3)\*

Kinesiology 454 Physical Activity and the Aging Process (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)*

Anthropology 308 Culture and Aging: Anthropological Gerontology (3)

Anthropology 408 Ethnogerontology (3)

Anthropology 417 Life Quests (3)

Biology 306 Biology of Aging (3)

Biology 311 Nutrition and Disease (3)\*

Child Development 312 Human Growth and Development (3)\*

Counseling 475T Counseling Special Populations (3)

Finance 411 Retirement and Estate Planning (3)

Health Sci 342 Stress Management (3)\*

Health Sci 401 Epidemiology (3)

Health Sci 440 Determinants of Health Behavior (3)

Health Sci 450 Applied Health Promotion Throughout the Lifespan (3)

Human Services 310 Case Management (3)

Human Services 380 Theories and Techniques of Counseling (3)\*

Human Services 385 Program Design and Proposal Writing (3)

Human Services 400 Ethical and Professional Issues in Human Services (3)

Human Services 410 Crisis Intervention (3)

Human Services 420 Human Services Management (3)

Human Services 480 Case Analysis and Intervention Techniques (3)

Kinesiology 353 Physical Activity and Lifelong Well-Being (3)\*

Kinesiology 364 Motor Development (3)

Kinesiology 371 Human Motor Learning and Control (3)

Kinesiology 400 Program Design in Kinesiology and Health Promotion (3)

Kinesiology 454 Physical Activity and the Aging Process (3)

Kinesiology 455 Functional Performance Assess and Programming for Older Adults (3)

Management 435 Service Organizations and Operations (3)

Marketing 351 Principles of Marketing (3)

Nursing 301 Promotion of Optimal Health (3)\*

Nursing 303 Women's Health and Healing (3)\*

Nursing 357 Health Promotion: Adult-Aged Nursing (3)

Philosophy 314 Medical Ethics (3)\*

Philosophy 448 Death, Dying and Meaning (3)

Psychology 302 Learning and Memory (3)

Psychology 303 Sensation and Perception (3)

Psychology 361 Developmental Psychology (3)

Psychology 362 Psychology of Aging (3)

Psychology 364 Intelligence: A Life-span Perspective (3)

Psychology 415 Cognitive Processes (3)

Psychology 474 Medical Psychology (3)

Psychology 475 Psychopharmacology (3)

Sociology 333 Sociology of Aging (3)

Sociology 361 Population and the Environment (3)\*

Sociology 371 Sociology of City Life (3)\*

Sociology 433 Aging and Social Services (3)

Sociology 351 Sociology of Families (3)\*

Sociology 354 Sociology of Sex Roles (3)\*

Sociology 360 Death and Dying (3)\*

Speech Comm 320 Intercultural Communication (3)\*

Speech Comm 345 Communication and Aging (3)\*

Women's Studies 410 Women, Health and Aging (3)

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 Programs. Up to nine units of coursework may be applied to both the major and Gerontology minor.

## MAJORS THAT COMPLIMENT THE MINOR IN GERONTOLOGY

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

## MASTER OF SCIENCE IN GERONTOLOGY

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, the student is able to design a course of study that will meet his or her individual needs. In addition

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\* Meets General Education requirement.

to course work 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 doctoral programs.

### Application Deadlines

Applications need to be postmarked no later than March 1st for the fall semester and October 1st for the spring semester. However, deadlines may be changed based upon enrollment projections. Check the university graduate studies website for current information at <http://www.fullerton.edu/graduate>.

### Admissions to Graduate Standing: Conditionally Classified

An applicant who meets the following requirements may be considered for conditionally classified graduate standing.

- Baccalaureate degree from an accredited institution and a grade point average of at least 2.5 in the last 60 units attempted.
- 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 course work in gerontology or their equivalent:



Biology 306 Biology of Aging (3 units)

Kinesiology 454 Physical Activity and the Aging Process (3 units)

Psychology 362 Psychology of Aging (3 units)

Sociology 333 Sociology of Aging (3 units)

- Completion of Psychology 201 or Sociology 303, or an equivalent statistics course.
- A grade-point average of at least 3.0 in gerontology-related course work.
- Three satisfactory letters of recommendation.
- Professional objectives as presented in a student letter of intent.
- Completion of a Gerontology Programs application form, obtainable from the Gerontology Programs Office.

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 the granting of classified standing. For further information, consult with the Gerontology Program Coordinator.

### Admissions to Graduate Standing: Classified

Each student, in consultation with the program coordinator, will develop a program of study. This program will be outlined in 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 30 units of approved graduate work with a minimum of 21 units at the 500-level.

#### Core Courses (12 units)

Gerontology 500 Processes of Adult Development and Aging (3)

Gerontology 501 Research Methods in Gerontology (3)

Gerontology 503 Aging and Public Policy (3)

Gerontology 595 Gerontology Internship (3)

#### Gerontology Electives (6-9 units)

Gerontology 504T Selected Topics in Gerontology (3)

Gerontology 526 Administration and System Management in Programs for Older Adults (3)

Gerontology 506 Economics of Aging (3)

Gerontology 507 Professional Issues in Gerontology (3)

Gerontology 599 Independent Study in Gerontology (1-3)

#### Multidisciplinary Electives (6-9 units)

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

Electives are:

Anthro 408 Ethnogerontology (3)

Counseling 475T Counseling Special Populations [Older Adults] (3)

Finance 411 Retirement and Estate Planning (3)

Kinesiology 454 Physical Activity and the Aging Process (3)

Kinesiology 455 Fitness Evaluation and Programming for Older Adults (3)

Philosophy 448 Death, Aging, and Meaning (3)

Psychology 543 Advanced Life Span Development (3)

Sociology 433 Aging and Social Services (3)

Sociology 501T Seminar: Topics in Societal Structure and Process (3)  
[Topic: Life Span Developmental Sociology]

Women's Studies 410 Women, Health, and Aging (3)

#### Thesis or Project or Comprehensive Exam (0-3 units)

Gerontology 597 Project (3)

OR Gerontology 598 Thesis (3)

OR Comprehensive Exam (0 units)

If a project or thesis is not done, an additional 3 units of Gerontology 500-level elective courses and a comprehensive examination must be taken.

## **PROFESSIONAL CERTIFICATE IN GERONTOLOGY**

Admission to this program requires a bachelor's degree with a minimum grade-point average of 2.5 in the last 60 semester units. The program requires 18 units total: 15 units of required courses and three units of electives. For further information on specific course content on this certificate and others related to Gerontology, please contact Extended Education, (714) 278-2611.

## **OTHER GERONOTOLGY PROGRAMS**

### **Sociology, B.A., M.A.**

An Emphasis in Gerontology is offered within the Bachelor of Arts and the Master of Arts in Sociology. Degree requirements are outlined in the Sociology Department section of this catalog.

### **Kinesiology, B.S., M.S.**

Students pursuing the B.S. or M.S. in Kinesiology may choose a focus area in Gerontology. Requirements are available through the Department of Kinesiology and Health Promotion.

### **Human Services, B.S.**

Students pursuing a B.S. in Human Services may choose a gerontology track. Requirements are available through the Department of Human Services.

## **GERONTOLOGY COURSES**

Courses are designated as GERO in class schedule.

### **410 Women, Health and Aging (3)**

(Same as Women's Studies 410)

### **500 Process of Adult Development and Aging (3)**

Prerequisite: admission to M.S. in Gerontology degree program or consent of instructor. Overview of theory and research on biological, psychological, and social changes that accompany adult development and aging. May include a service learning component.

### **501 Research Methods in Gerontology (3)**

Prerequisite: admission to M.S. in Gerontology or consent of instructor. Overview of 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: Gerontology 500, Sociology 333, Political Science 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, health care, social services, and housing of older persons. May include a service learning component. (Same as Political Science 503 and Sociology 503)

### **504T Selected Topics in Gerontology (3)**

Prerequisites: classified status in the M.S. in Gerontology Program and consent of instructor. A detailed examination of a selected area of gerontology. Emphasis will be both on the relevant literature and on the preparation, presentation (oral and written), and discussion of research papers. May be repeated once for credit with different topic.

### **506 Economics of Aging (3)**

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

### **507 Professional Issues in Gerontology (3)**

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

### **526 Administration and Systems Management (3)**

Prerequisites: admission to the M.S. in Gerontology program and Gerontology 501 (pre/co-requisite), or a course in basic statistics and Political Science 309 or 320. Management oriented analysis of organizational behavior. Treatments of decision making, leadership, communication, group dynamics and ethical aspects of organization. Includes application of theories of administration and systems management to public and volunteer programs and services (Same as Political Science 526).

### **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 or consent of instructor and program coordinator. Individualized study with an instructor whose recognized interests are in the area of the planned study. Conferences with the instructor as necessary, and the work will culminate in one or more papers. May be repeated once for credit.

**DEPARTMENT CHAIR**

William W. Haddad

**DEPARTMENT OFFICE**

Humanities 815F

**DEPARTMENT WEBSITE**

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

**PROGRAMS OFFERED**

Bachelor of Arts in History

Minor in History

Master of Arts in History

**FACULTY**

Gordon Bakken, Leland Bellot, Gayle Brunelle, Jochen Burgdorf, Jack Crabbs, Touraj Daryaei, Kristine Dennehy, Jack Elenbaas, Nancy Fitch, Natalie Fousekis, George Giacomakis, Cora Granata, William W. Haddad, Arthur Hansen, Harry Jeffrey, Samuel Kupper, Mougou Nyaggah, Ronald Rietveld, Seymour Scheinberg, Gary Shumway, Laichen Sun, David Van Deventer, Nelson Woodard, James Woodward, Philippe Zacair, Cecile Zinberg

**ADVISERS**

General Advisement:

Check with departmental office.

Undergraduate Coordinator:

Gayle Brunelle

Graduate Adviser:

Jack Elenbaas

Credential Advises:

Nelson Woodard

**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 History 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 History 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.

**Credential Information**

The bachelor's degree in history 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 history. Teaching credentials require specific study plans and students are urged to seek advice from an adviser early in their course of study. Majors planning to teach at the secondary level should have a study plan approved by the Undergraduate Coordinator or designee by the first semester of their junior year in residence. Undergraduates are also encouraged to contact the Center for Careers in Teaching (714-278-7130) as early as possible in their academic careers. Postgraduate students should contact the Admission to Teacher Education office in the School of Education (714-278-3411) to obtain information on attending an overview presentation.

**Center for Oral and Public History**

The Center for Oral and Public History, under the sponsorship of the Department of History, is one of the most comprehensive university-based oral history programs in the nation. In addition to offering course work in interviewing techniques, technical processing methodology, and community fieldwork, the program administers an assortment of ethnic, political, and other regional projects.

### 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 Professors Bakken, Bellot, or Kupper.

### Prizes and Scholarships

Students should inquire at the department office for information regarding departmental prizes and scholarships.

### BACHELOR OF ARTS IN HISTORY

The B.A. in History requires a minimum of 120 units that includes courses for the major, General Education, all University requirements, and free electives. History majors are expected to earn at least a "C" in History 300A, 300B and 490T.

The major requires a total of 45 units distributed as follows:

#### Introductory Survey Courses (12 units)

*World Civilization*  
(6 units)

1. History 110A World Civilizations to the 16th Century (3)  
AND History 110B World Civilizations Since the 16th Century (3)

*U.S. History* (6 units)

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

#### Intermediate Requirements (24 units)

History 300A Historical Thinking (3)

History 300B Historical Writing (3)

At least 6 units in each of the following fields:

1. United States History
2. European and Ancient Mediterranean History
3. Latin American, Asian, African, or Middle Eastern History

#### Advanced Requirements (9 units)

Two upper-division history electives (6)

History 490T Senior Research Seminar (3)

### MINOR IN HISTORY

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

1. Lower-division course work - 6 or 9 units (including general education)
2. Upper-division course work - 15 or 18 units (including History 300A)

A total of 24 units is required for the minor in history.

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

### MASTER OF ARTS IN HISTORY

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.

#### Application Deadlines

Applications need to be postmarked no later than March 1st for the fall semester and October 1st for the spring semester. However, deadlines may be changed based upon enrollment projections. Check the university graduate studies website for current information <http://www.fullerton.edu/graduate/>.

#### 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 2.5 in the last 60 semester units and a 3.0 grade-point average in upper-division history courses. After fulfilling the university requirements, the applicant's records are sent to the History Department's graduate coordinator for evaluation. Students with deficiencies will be considered for admission only after they have completed courses approved by the coordinator.

#### Study Plan

Each student determines his or her study plan with the graduate coordinator and an adviser in the area of specialization before commencing course work. Two plans are offered: Plan I, in which one specific field of interest is developed, requiring a written thesis or project (with an oral examination taken before the final draft); Plan II, in which the student must pass written comprehensive examinations in two of the following fields: (1) American; (2) European; or (3) Latin American, Asian, African, or Middle Eastern areas.

Thirty units of work are required for the master's degree. All students must complete the following courses:

History 501 Theory and History (3)

History 521T Directed Readings Seminar-European History (3)

OR History 571T Directed Readings Seminar-American History (3)

History 522 Seminar in European History (3)

OR History 572 Seminar in American History (3)

In addition, nine more units of 500-level course work must be taken, making a total of 18. 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.

Before advancement to candidacy, a cultural understanding or research skill requirement must be met. This may be fulfilled in a variety of ways: (1) an examination on reading ability in a foreign language, (2) completion of 12 units of comparative studies in other departments appropriate to the student's program, (3) an examination or courses taken in statistics, or (4) courses and certification by the director of the Center for Oral and Public History.

## EMPHASIS IN PUBLIC HISTORY

Students seeking admission to the Master of Arts in history with an emphasis in public history must meet the same admission requirements as those entering the regular history program. The degree requirements include 30 units of course work and completion of cultural understanding or skill requirement prior to candidacy.

### Required History Courses (9 units)

History 501 Theory and History (3)

History 506 Seminar in Public History (3)

History 571T Directed Readings Seminar-American History (3)

### Electives (15 units)

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

History 456 Introduction to Public History (3)

History 492 Community History (3)

History 493 Oral History (3)

History 494 History and Editing (3)



### Culminating Experience (6 units)

History 596 Graduate Internship in History (3)

History 597 History Project (3 or 6)

For further information call the Department of History.

### 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. (CAN HIST 10; CAN HIST SEQ B = History 170A and 170B)

### 180 Survey of American History (3)

American history from prehistoric times (before 1492) to the present according to chronological time periods. Basic themes which 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 History 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-Ethnic Studies/ Chicano Studies 190). Credit will not be given for both History 180 and 190.

### 201 The History of Asian Pacific Americans (3)

Prerequisite: completion of General Education category III. C.1. This class examines the 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 Asian American Studies 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)

The 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" in this course.

### 300B Historical Writing (3)

Prerequisite: History 300A. 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" in this course.

### 302A Historical Dimension of Liberal Studies (3)

Prerequisites: prior or concurrent completion of Liberal Studies 300 and completion of General Education Category II.A. The origins and development of modes of thought and forms of expression in the three core areas of liberal studies, i.e., the natural sciences, the social sciences, and the arts and humanities. (Same as Liberal Studies 302A)

### 302B Historical Dimension of Liberal Studies (3)

Prerequisite: completion of History 302A with a grade of C or better. The origins and development of modes of thought and forms of expression in the three core areas of liberal studies, i.e., the natural sciences, the social sciences, and the arts and humanities. (Same as Liberal Studies 302B)

## HISTORY COURSES

Courses are designated as HIST in the class schedule.

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

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

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

The development of Western and non-Western civilizations from the 16th century to the present. (CAN HIST 16; CAN HIST SEQ C = History 110A and 110B)

### 170A United States to 1877 (3)

The 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. (CAN HIST 8)

### **311 World War II (3)**

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

### **320 Modern European History (1789 - Present) (3)**

Prerequisites: History 110B or completion of General Education category III.C.1. Explores major political, social, economic, and cultural developments in Modern Europe. Topics include: French Revolution, industrial revolution, liberalism, socialism, nationalism, imperialism, urbanization, modernity, the World Wars, Russian Revolution, inter-war period, and post-1945 period.

### **350 History of Latin American Civilization (3)**

Prerequisite: completion of General Education category II.A and III.C.1. The social, economic, political and cultural evolution of Latin America from the European conquest to the present.

### **355 History of African Civilization (3)**

Examines the social, political, economic and cultural evolution of African civilizations from early times to the present. Credit will not be given for both History 355 and Afro-Ethnic Studies 346.

### **360 Modern Asia: Nationalism and Revolutionary Change (3)**

Prerequisite: History 110B and completion of General Education category III.C.1. A 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) (Formerly 477)**

Prerequisite: completion of the General Education category II.B.1 Images, symbols, visual metaphors and myths will be studied 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.

### **386A American Social History 1750-1860 (3)**

Prerequisite: completion of General Education category II.B. A 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 General Education requirement II.B. A social history of the United States from the Civil War; reform, social organization and values. The women's movement, censorship, divorce, the child and the limits of reform movements in an organizational society.

### **394 The American Civil War (3)**

Prerequisite: History 170A, 180, or consent of instructor. A 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: History 110B or consent of instructor. A 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: History 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.

### **402 Ancient and Medieval Britain (3)**

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

### **403 Tudor-Stuart England (3)**

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

### **404 History of Modern England and Great Britain (3)**

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

### **405 History of the Jews (3)**

Prerequisite: completion of General Education category II.A. The Jewish people from the biblical period to the present. The literature of each period as well as the relationships which exist between the Jewish communities and the societies in which they exist. (Same as Comparative Religion 405)

### **406 The Holocaust (3)**

Prerequisite: History 110B, or any modern European upper-division course. This course will trace the history and examine 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 Comparative Religion 406)

### **408 History of California (3)**

Prerequisite: completion of General Education requirement II.B. The 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.

### **409 Cities in European Civilization, 1000-1915 (3)**

Prerequisite: History 110A or 110B. This course is designed to offer undergraduate students an opportunity to explore the 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.

### **410 The Rise of the Atlantic World (3)**

Prerequisite: History 110A. Explores the 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."

**411 World War II Japanese American Evacuation (3)**

Prerequisites: completion of General Education category III.C.1 and History 170B, 180, or 190. An exploration of the 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 Asian American Studies 411)

**415A Classical Greece (3)**

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

**417A Roman Republic (3)**

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

**417B Roman Empire (3)**

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

**420 The Byzantine Empire (3)**

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

**421A History of the Christian Church to the Reformation (1517) (3)**

Prerequisite: History 110A or equivalent. The 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 Comparative Religion 421A)

**421B History of the Christian Church from the Reformation to the Present (3)**

Prerequisite: History 110B or equivalent. The western church as an institution from the Reformation (1517) to the present. Orthodoxy, Catholicism, and Protestantism in historical perspective. (Same as Comparative Religion 421B)

**423 Medieval History, 300-1350 (3)**

Prerequisite: History 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.

**424T Gender and Sexuality in History (3)**

Prerequisites: History 110A and 110B, 170A and 170B, or equivalents, or consent of instructor. Variable topics in gender and sexuality in history. Course examines historical forces that shaped masculinity and/or femininity.

**425A The Renaissance (3)**

Prerequisite: completion of General Education category II.A. Europe in the 14th and 15th centuries: the development of humanism and capitalism in Italy and their impact on European culture, the rise of Renaissance monarchies, the Renaissance papacy, Christian humanism and Renaissance science and mysticism.

**425B The Reformation (3)**

Prerequisite: completion of General Education category II.A. Europe in the 16th and 17th centuries: the impact of the Protestant and Catholic Reformations on European culture, the religious wars, the price revolution and the crises of the nobility, the rise of absolutism and the early modern family. (Same as Comparative Religion 425B)

**427 Enlightenment and Revolution (3)**

Prerequisites: History 110A-B. The impact of slavery in the French Caribbean, the rise of nation states, the emergence of Enlightenment thought, feminism, and popular politics during the eighteenth century and the French Revolution.

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

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

**429A Europe 1890-1945 (3)**

Prerequisite: History 110B. A survey of the cultural, political, and economic history of Europe, 1890-1945.

**429B Europe Since 1945 (3)**

Prerequisite: History 110B. A survey of the cultural, political, and economic history of Europe since 1945.

**430 History of Science: Copernicus to the Present (3)**

Prerequisites: completion of General Education category III.A.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. Not available for graduate degree credit.

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

Prerequisite: History 110B. This course will both survey the social and political history of Germany from 1871 through World War II and introduce students to current historiographical debates in modern German history.

**434A Russia to 1890 (3)**

Prerequisite: completion of General Education category II.A. The establishment of the Russian state at Kiev through the great reforms, the revolutionary movement and reaction of the 19th century. The shaping of contemporary Russia.

**434B The Russian Revolutions & the Soviet Regime (3)**

Prerequisite: History 110B or equivalent. The 1905 and 1917 revolutions and the subsequent consolidation of power under the Communist regime. The continuity and change in Russian social, political, cultural institutions and foreign policy affected by the impact of Marxist-Leninist-Stalinist ideology.

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

Prerequisite: History 110B. The course examines the issues of race, ethnicity, and gender in Latin America from the 15th century to the present. Emphasis will be on Latin America's two largest countries, Brazil and Mexico.



#### **450 African History Since 1935 (3)**

Prerequisite: History 110B or equivalent. This course examines the 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 450)

#### **451 Colonial Period of Latin America (3)**

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

#### **452 20th-Century Brazil (3)**

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

#### **453 History of Mexico (3)**

Prerequisite: completion of any course which meets the requirements for General Education category II.A. or II.B. History of Mexico from pre-Columbian times to end of the active stage of the Mexican Revolution in 1933. Special focus on the creation of a Mexican historical identity.

#### **454 19th Century Latin America: Era of Nation Building (3)**

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

#### **455 Latin America Since 1945 (3)**

Prerequisites: completion of History 110A-B or consent of instructor. Focuses on political, economic, cultural and social patterns in key Latin American nations from 1945 to the present. Not available for graduate degree credit.

#### **456 Introduction to Public History (3)**

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

#### **457 West Africa and the African Diaspora (3)**

Prerequisite: History 110B or equivalent. This course deals with West African relationships with the African diaspora in the Americas. Examines 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 457)

#### **458 Southern Africa in the 20th Century (3)**

Prerequisite: History 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-Ethnic Studies 458)

#### **461 Modern Vietnam (3)**

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

#### **462A History of China (3)**

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

#### **463A History of Japan (3)**

Prerequisite: completion of the General Education category II.A. The social, political, and economic history of Japan until 1868 stressing the Tokugawa era.

#### **463B History of Japan (3)**

Prerequisite: History 110B or equivalent. The rise of the modern Japanese state, Japanese imperialism and the postwar era.

#### **464A History of Southeast Asia, 1850-1945 (3)**

Prerequisite: History 110B or equivalent. Southeast Asia under the impact of imperialism and the effects of the Pacific War on the European empires.

#### **464B History of Contemporary Southeast Asia (3)**

Prerequisite: History 110B or equivalent. Southeast Asia since the Pacific War to the present. The problems of the area and American involvement in Southeast Asia.

#### **465A History of India (3)**

Prerequisite: completion of General Education category II.A. Survey of the 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 Comparative Religion 465A)

#### **465B History of India (3)**

Prerequisite: History 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 Comparative Religion 465B)

**466A Islamic Civilization: Arab Era (3)**

Prerequisite: History 110A or equivalent. Arab predominance in the Middle East from the rise of Islam to the Mongol invasions of the 13th century.

**466B Islamic Civilization: Imperial Age (3)**

Prerequisite: completion of General Education requirement II.A. The Mongol invasions of the Middle East and their effects. The Ottoman Turkish, Safavid Persian and Moghul Empires to 1800.

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

Prerequisite: History 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.

**468 Middle East in the 20th Century (3)**

Prerequisite: History 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.

**469 American Military History (3)**

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

**470 American Colonial Civilization (3)**

Prerequisite: History 170A, 180, or consent of instructor. Analyzes the 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.

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

Prerequisite: History 170A, 180, or consent of instructor. 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.

**472 Jeffersonian Themes in American Society, 1800-1861 (3)**

Prerequisite: completion of General Education category in American History, Institutions and Values. Jeffersonian values and their impact upon the social, political and cultural life of the nation.

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

Prerequisite: completion of General Education category in American History, Institutions and Values. America's "great national crisis" and the impact of slavery, civil war and national reconstruction upon the democratic process of the republic.

**474 United States, 1876-1920 (3)**

Prerequisite: History 170B, 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.

**475 United States, 1920-1960 (3)**

Prerequisite: History 170B, 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.

**476 United States Since 1960 (3)**

Prerequisite: History 170B, 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.

**478 The History of Orange County (3)**

Prerequisite: History 170B, 180, or equivalent. The history of Orange County. Stress on the process of urbanization.

**479 The Urbanization of American Life (3)**

Prerequisite: completion of General Education category II.B. Urban life in America; the colonial town, the western town and the industrial city.

**480 Development of American Law (3)**

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

**481 Westward Movement in the United States (3)**

Prerequisite: completion of General Education category II.B. The 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.

**482 Themes in American Thought (3)**

Prerequisite: History 170A-B, 180, or 190. An examination of intellectual movements and ideas from the colonial period through the twentieth century. Examples of topics treated are: Puritanism; the Enlightenment influence in America; utopian reform; Darwinism; and Freudian thought.

**483 American Religious History (3)**

Prerequisite: completion of General Education category II.B. American religious life and the proliferation of religious organizations as the result of the transplanting of the European religious heritage in a new environment. Not available for graduate degree credit. (Same as Comparative Religion 483)

**484 American Legal and Constitutional History (3)**

Prerequisite: completion of General Education category II.B. Examination of legal and constitutional issues affecting the development of the U.S. Constitution, American law and government. The course will survey developments from English and colonial legal origins to constitutional problems of the post-World War II era.

**485 United States Foreign Relations (3)**

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

**486 United States Cultural History (3)**

Prerequisite: completion of General Education category II.B. The social and intellectual development of the United States from the Civil War to the present.

#### **487 History of American Parties and Politics (3)**

Prerequisite: completion of General Education category II.B. Development of American political parties and issues from 1787 to the present. Analyzes the evolution and change in American political parties and the recent impact of mass media upon them.

#### **490T Senior Research Seminar (3)**

Prerequisites: History 300A and 300B or consent of instructor. 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" in this course.

#### **491T Proseminar in Special Topics in History (3)**

Prerequisite: History 300A and 300B or consent of instructor. Intensive study of selected phases or periods of history.

#### **492 Community History (3)**

Prerequisite: completion of General Education category II.B. 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.

#### **493 Oral History (3)**

Prerequisite: completion of General Education category II.B. The utilization of tape recorded interviews to document significant events in 20th-century history. Training will be given in interviewing techniques, specific background research and equipment use, after which students conduct a number of tape recorded interviews.

#### **494 History and Editing (3)**

Prerequisite: senior standing and consent of instructor. Techniques of editing, book and photo layout, and indexing. Focuses on oral history documents but includes other historical and technical editing.

#### **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) (Formerly History 503)**

History 300A or equivalent or consent of instructor. Seminar introducing student to 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 three-unit upper-division course in the sub-field of the offering or its equivalent. A 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) (Formerly History 520)**

History 501 or equivalent. A 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.

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

Prerequisite: a three-unit upper-division course in the sub-field of the offering or permission of instructor. A 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) (Formerly History 570)**

History 501 or equivalent. A 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 History 597, Project, and constitutes research phase of main graduate exercise as well as preparation for post-graduate career. This course may be repeated for credit.

#### **597 History Project (3 or 6)**

The editing of 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.



## **DIVISION OF CHILD, FAMILY AND COMMUNITY SERVICES**

### **DIVISION HEAD**

Vacant

### **DEPARTMENT CHAIR**

Mikel Hogan-Garcia

### **DEPARTMENT OFFICE**

Education Classroom 105

### **DEPARTMENT WEBSITE**

<http://hdcs.fullerton.edu/HUSR/husrhome.htm>

### **PROGRAMS OFFERED**

Bachelor of Science in Human Services  
Minor in Human Services

### **FACULTY**

John Doyle, Mikel Hogan-Garcia, Kristi Kanel, Mikeyong Kim-Goh, Carl Renold, J. Michael Russell

## **INTRODUCTION**

The Bachelor of Science in Human Services is a carefully articulated program providing both the academic and experiential background for the student seeking a career working with people in the varied and expanding field of human services. An application-oriented major, it is based on a synthesis of knowledge from several social sciences, together with methodologies of intervention at the individual, group and community levels. Human services graduates are educated to respond in an informed way to identifiable human service needs in a variety of settings. The program's orientation and its synthesis of knowledge from many background disciplines, as well as its focus on the development of specific methods and practical skills to apply this knowledge, give it a unique perspective.

The Human Services major is structured around four interrelated components: theoretical foundations/intervention strategies; client population/cultural diversity; research/evaluation; and skill development/field experience.

## **BACHELOR OF SCIENCE IN HUMAN SERVICES**

The Bachelor of Science in Human Services requires a minimum of 120 units which includes courses for the major, General Education, all University requirements, and free electives. The requirements for the major consist of 54 units. The required core curriculum consists of 36 units (in the above four areas), plus 18-units of adviser-approved courses related to one's anticipated professional specialization.

Majors must achieve a grade of C or better in all courses included in the core curriculum and in the advisement track. It is the student's responsibility to consult an adviser on the human services faculty at least once during each of her/his first two semesters on campus to develop a study plan identifying courses for the advisement track.

### **Community College Transfer Students**

Community college transfer students may apply a maximum of 12 units of course work in human services and related fields towards the total of 54 units. Transfer of any units must be approved by the student's adviser and the department adviser. For transfer students with a certificate in Substance Abuse, up to 18 units of course work in human services may be applied to the total of 54 units.

### **Multiple Subject Credential Students**

The Human Services degree may be effectively combined with subject matter studies necessary for the multiple subject teaching credential (K-8). Undergraduates are encouraged to work with the Center for Careers in Teaching (714-278-7130) as early as possible in their academic careers to plan efficient course selections for general education, major and electives. With careful planning, it may be possible to enter the credential program in the senior year of the bachelor's degree.

### **Required Core Curriculum (36 units)**

*Theoretical Foundation/Intervention (9 units)*

Human Services 201 Introduction to Human Services (3)

Human Services/Counseling 380 Theories and Techniques of Counseling (3)

Human Services 310 Case Management (3)

OR Sociology 305 Techniques of Social Welfare (3)

*Client Populations/Cultural Diversity (9 units)*

Afro/Human Services 311 Intracultural Socialization Patterns (3)  
Child/Adolescent Studies 312 Human Growth and Development (3)  
OR Psychology 361 Developmental Psychology (3)  
Psychology 341 Abnormal Psychology (3)  
OR Sociology 351 Sociology of the Family (3)

*Research/Evaluation (9 units)*

Psychology 201 Elementary Statistics (3)  
OR Sociology 303 Statistics for the Social Sciences (3)  
OR Human Services 315 Research and Data Management in Human Services (3)  
Human Services 385 Program Design and Proposal Writing (3)  
Human Services 470 Evaluation of Human Services Programs (3)

*Skills Development/Field Experience (9 units)*

Human Services 396 Practicum Seminar (2) and Human Services 396L Practicum (1)  
Human Services 495 Fieldwork Seminar (2) and Human Services 495L Fieldwork (1)  
Human Services 496 Internship Seminar (2) and Human Services 496L Internship (1-3)

*Note:* The practicum/ fieldwork/ internship courses (Human Services 396 and 396L, 495 and 495L, and 496 and 496L) must be taken in sequence. Only one fieldwork course may be taken in a given semester.

#### **Required Advisement Track (18 units)**

In addition to the 36-unit core, the human services degree program requires each student to select, in consultation with an adviser, an 18-unit advisement track in the area of her/his anticipated professional specialization. Advisement tracks include: (1) Mental health track (with emphasis in either counseling or social work; (2) community agency and organizational practice track; (3) gerontology track; (4) elementary education track; and (5) individualized advisement track. Students are expected to consult with an adviser during their first semester in the Human Services Program to develop a study plan.

*Note:* Human Services 300 Character and Conflict is required in the mental health advisement track and should be taken early in the program.

#### **MINOR IN HUMAN SERVICES**

The minor in Human Services, consisting of 21 units, may be of interest to students preparing for careers in the helping professions, as well as students with a personal interest in this field. The minor provides a structured selection of courses offered by the program which can complement other majors and minors by providing practical applications of theory, foundations, self-exploration and supervised fieldwork in a human services setting. Only courses listed in the articulation agreement may be transferred from community colleges.

#### **Required Foundation Courses: 9 units**

Human Services 201 Introduction to Human Services (3)  
Human Services 311 Intracultural Socialization Patterns (3)

Human Services 380 Theories and Techniques of Counseling (3)  
OR Sociology 305 Techniques of Social Welfare (3)

#### **Electives select 3-9 units from the following**

Human Services 300 Character and Conflict (3)  
Human Services 310 Case Management (3)  
Human Services 385 Program Design and Proposal Writing (3)  
Human Services 400 Ethical and Professional Issues in Human Services (3)  
Human Services 410 Crisis Intervention for Para-Professionals (3)  
Human Services 411 Human Services Delivery to Communities (3)  
Human Services 415 Treatment Issues in Drug Addiction (3)  
Human Services 416 Group Process and Membership (1-3)  
Human Services 420 Human Services Management (3)  
Human Services 430 Child Abuse and the Human Services (3)  
Human Services 450 Theory and Practice of Group Counseling (3)  
Human Services 470 Evaluation of Human Services Programs (3)  
Human Services 475 Human Services Policy and Practice (3)  
Human Services 480 Case Analysis and Intervention Techniques (3)

#### **Fieldwork select 3-9 units from the following**

Human Services 396/396L Practicum Seminar (2) and Practicum (1)  
Human Services 495/495L Fieldwork Seminar (2) and Fieldwork (1)  
Human Services 490 Practicum in Group Leadership (3)  
Human Services 496/496L Internship Seminar (2) and Internship (1-3)  
Equivalent practicum/internship course from a related University department

#### **HUMAN SERVICES COURSES**

Courses are designated as HUSR in the class schedule.

#### **196 Student-to-Student Tutorial (1-3)**

Prerequisite: approval of Department Chair. Students gain tutoring experience with peers needing special assistance on a one-to-one basis or in small group settings. 1-3 units, credit/no credit only, does not count toward the Human Services major/minor or G.E. requirement.

#### **201 Introduction to Human Services (3)**

The origin and scope of human services including theoretical frameworks, the functions and activities of human services organizations, and the roles and related skills of human services workers.

#### **300 Character and Conflict (3)**

Prerequisite: consent of instructor at first class meeting. An experiential, theme-oriented class exploring life choices in the struggle for personal autonomy. Themes include: body image, sex roles, love, sexuality, intimacy, marriage, loneliness, death, meaning and values. Credit/no credit only.

### 310 Case Management (3)

Prerequisites: Human Services 201, 396, 396L or equivalent. This course examines the principles and critical issues in case management, along with the various models of service delivery. Special attention will be given to the diverse populations utilizing case management systems. Collaborative and interagency services will be examined.

### 311 Intracultural Socialization Patterns (3)

(Same as Afro Studies 311)

### 315 Research and Data Management in Human Services (3)

Prerequisites: Completion of General Education category III.A.1. and Human Services 201. An overview of basic research and assessment skills appropriate to the delivery of human services. This course focuses on introductory skills relating to library search techniques, evaluation of research articles, computer based data analysis, tracking of client progress and implications for human services.

### 318 Human Services for Immigrants and Refugees (3)

Prerequisite: Human Services 201 or 311. This course provides an overview of U.S. immigration policy for newcomers, examines stressors and cultural influences on coping behaviors, and explores culturally sensitive models of human service delivery with an emphasis on Southeast Asian, Latino, and Soviet immigrants and refugees.



### 380 Theories and Techniques of Counseling (3)

Prerequisite: junior/senior standing or consent of instructor and completion of General Education Category III.C.1. Survey of contemporary theories and techniques of counseling.

The counseling process, comparison of various theoretical approaches, introduction to professional and ethical issues. (Same as Counseling 380)

### 385 Program Design and Proposal Writing (3)

Prerequisites: Human Services 201; 396 and 396L, or consent of instructor. Techniques of program design, budgeting and staffing of human service programs; proposal writing and fund development methods; survey of needs assessment procedures.

### 396 Practicum Seminar (2)

Prerequisite: Human Services 201 and 380; Sociology 305 or Human Services 310. Co-requisite: Human Services 396L. Functions and structure of human services agencies; interrelationships with community services; the role of the human services worker; ethical, legal and professional issues.

### 396L Practicum (1)

Prerequisites: Human Services 201 and 380; Sociology 305 or Human Services 310. Co-requisite: Human Services 396. Field placement in one or more human service agencies for a minimum of eight hours per week. Credit/no credit only.

### 400 Ethical and Professional Issues in Human Services (3)

Prerequisites: Human Services 380; 396 and 396L; or Philosophy 310, or consent of instructor. A survey of ethical, legal and professional issues facing the human services worker. Designed to teach a process of ethical decision-making and to increase awareness of the complexities in practice. (Same as Philosophy 400)

### 410 Crisis Intervention for Para-Professionals (3)

Prerequisite: Human Services 380 or equivalent. Examines the theories and techniques of short-term intervention and subsequent referral procedures. Topics include suicide, battering, AIDS, rape, death, dying and human-induced disasters in the community.

### 411 Human Services Delivery to Communities (3)

Prerequisite: Afro/Human Services 311 or equivalent. This course provides a framework for identifying the human service needs of varied community groups and focuses on the utilization of this knowledge about those groups in order to develop effective service delivery strategies.

### 412 Gerontology in Human Services (3)

Prerequisite: Human Services 201. An overview of gerontology and human services practice and policy focusing on historical developments and content of key social, legislative and governmental programs designed for older adults, including the Social Security Act, Older Americans Act, and Medicare.

### 415 Treatment Issues in Drug Addiction (3)

Prerequisite: Human Services 380 or equivalent. A survey which examines the treatment issues and theoretical models involved in the treatment of drug dependencies. Emphasis is on the specific effects of different drug classifications; understanding drug cultures; women, children and elderly addiction; co-dependency and enabling.

### 416 Group Process and Membership (1)

Prerequisites: Human Services 300 and 380. A didactic and experiential overview of stages of group development, impact of members on group identity, group member and leader issues. Survey of various counseling groups. May be repeated for credit. Credit/no credit only.

### 420 Human Services Management (3)

Prerequisite: Human Services 385. Issues in administration and management of human services in community agencies. Topics include assessing client needs, designing human service delivery systems, program budgeting, marketing strategies, accountability, and improving program management.

### 425T Contemporary Issues in the Human Services (3)

Prerequisite: Human Services 201; Completion or concurrent enrollment in Human Services 380, Sociology 305 or Human Services 310. Systematic study and theory, research findings and intervention strategies related to contemporary issues faced by paraprofessional human service workers. May be repeated for credit under different topic.

**430 Child Abuse and the Human Services (3)**

Prerequisite: Human Services 201 or equivalent. Introduction to types and symptoms of abuse, assessment techniques, legal and ethical issues, family dynamics pertaining to children, adolescents, and adults abused as children. Special topics include networking and referral, utilizing community resources and prevention.

**450 Theory and Practice of Group Counseling (3)**

Prerequisites: Human Services 300 and Human Services 380 and consent of instructor. A critical evaluation of ten contemporary theoretical approaches to group counseling as well as issues in group work. Emphasis is upon applying theories and techniques to actual group situations.

**470 Evaluation of Human Services Programs (3)**

Prerequisites: Human Services 385 and an elementary social science statistics course. Making program objectives measurable; determining appropriate methodology and techniques to evaluate effectiveness, efficiency and process variables; practical problems of program evaluation.

**475 Human Services Policy and Practice (3)**

Prerequisites: advanced standing, Human Services 385. Explores the relationship between policy and practice. Emphasis is on the problem of inequities and inequalities in the distribution of resources through social policies and social welfare programs. Particular attention is paid to how policy impacts service delivery to disenfranchised groups.

**480 Case Analysis and Intervention Techniques (3)**

Prerequisites: Human Services 380, 396 and 396L; Psychology 341. Psychodynamic principles of evaluation, diagnosis and intervention; techniques of counseling appropriate to diverse populations; application of a psychoanalytic perspective to the diagnostic categories of the DSM-IV.

**490 Practicum in Group Leadership (3)**

Prerequisites: Human Services 300, 380 and consent of instructor. Supervised experience as a group leader. Approaches and techniques of group leadership. May be used as a substitute for 496/496L. Coordinator approval needed for substitution for 496/ 496L. May be repeated once for credit.

**495 Fieldwork Seminar (2)**

Prerequisites: Human Services 396 and 396L. Co-requisite: Human Services 495L. Classroom analysis of agency experience focusing on skills and techniques of human service workers and organizational analysis.

**495L Fieldwork (1)**

Prerequisites: Human Services 396 and 396L. Co-requisite: Human Services 495. Supervised fieldwork in one or more human service agencies for a minimum of eight hours per week. Credit/no credit only.

**496 Internship Seminar (2)**

Prerequisites: Human Services 495 and 495L and at least two courses in approved specialization. Co-requisite: Human Services 496L. Supervised internship in a community service agency in area of specialization. Seminar consists of group supervision and discussion of cases. Credit/No Credit only.

**496L Internship (1-3)**

Prerequisite: Human Services 495 and 495L. Co-requisite: Human Services 496. Each unit of credit requires 120 hours of supervised internship experience in one or more human service agencies in one semester, or eight hours weekly for each unit of credit. Credit/No Credit only.

**499 Independent Study (1-3)**

Prerequisites: approval of coordinator, consent of instructor, upper-division status. Individual research project, either library or field, under the direction of a faculty member. May be repeated for credit. Only three units per semester.