One upper division UC Davis general course on global or international studies in the Social Sciences (210-259); 3-4 See program advisor for a list of approved courses.

Course cluster requirement .......................... 16-17

The minor requires the selection of interrelated courses totaling a minimum of 16-17 upper division units in area and regional studies or thematic course clusters in global and international studies in the Social Sciences.

Suggested course clusters for the Social Science Emphasis:

(1) Courses or region-specific courses in the Social Sciences: Western Europe; Russian and East/Central Europe; Asia and the Pacific; Latin and South America; Africa and the Middle East; Jewish Studies; specific countries.

or

(2) Courses clustered around a thematic field in global and international studies: world trade and development; peace and security; global environment, health, and natural resources.

Study Abroad and International Internship:
The course cluster requirement may be met in one of two ways: (1) completion of a minimum of 16-17 units in the course cluster emphasis by taking approved UC Davis upper division courses in the area of global/international studies and/or approved upper division courses taken while participating in a UC Davis Study Abroad, UCEAP or another approved study abroad program, or (2) completion of 12 units of course work in a UC Davis accredited international internship, plus UC Davis courses sufficient to total 16-17 units. Those students who are unable to study abroad or participate in an international internship may fulfill the requirement by taking approved global/international courses at UC Davis. Students must meet with the GIS advisor and complete a Course Cluster Worksheet to demonstrate subject interrelatedness.

Restrictions.

No more than two courses from a single UC Davis department may be offered in satisfaction of the minor requirements.

Foreign Language Study.

Students are strongly encouraged to study a foreign language, particularly the language of the country in which and about which they intend to study. However, only upper division course work may be used to fulfill requirements for the minor.

Greek

See Classics, on page 198.

Health Informatics (A Graduate Group)

Formerly Medical Informatics (A Graduate Group)

Peter Yellowlees, M.B.B.S., M.D., Chairperson of the Group

Group Office.

UC Davis Health System Health Informatics Program

2450 48th St., Suite 2800, Sacramento, CA 95817

916-734-8710; healthinformatics@ucdavis.edu

Faculty

Nicholas Anderson, Ph.D., Assistant Professor (Pathology and Laboratory Medicine)

April Anderson, M.D., M.P.H., Assistant Clinical Professor (Dermatology)

Aaron Bair, M.D., M.S., Associate Professor (Emergency Medicine)

Matt Bishop, Ph.D., Professor (Computer Science)

Dariusz Borys, M.D., Assistant Professor (Emergency Medicine)

Robert Briffa, Ph.D., Professor (Pathology and Laboratory Medicine)

Mary Christopher, D.V.M., Ph.D., Professor (Pathology, Microbiology, and Immunology)

Christina Davis, M.D., Assistant Professor (Mechanical and Aerospace Engineering)

Estella Geraghty, M.D., M.S., M.P.H., Assistant Professor of Clinical Internal Medicine (General Medicine)

Fred Gorin, M.D., Ph.D., Professor (Neurology)

Bernd Hamann, Ph.D., Professor (Computer Science)

Calvin Hinch, M.D., F.A.C.P., Professor (Internal Medicine and Public Health Sciences)

Michael Hogarth, M.D., Associate Professor (Pathology and Laboratory Medicine)

Anthony Jerant, M.D., Associate Professor (Family and Community Medicine)

Tae Youn Kim, Ph.D., R.N., Associate Professor (Nursing)

Patrick Koehler, Ph.D., Associate Professor (Computer Science)

James Marcini, M.D., M.P.H., Associate Professor (Pediatrics)

Thomas Nedditt, M.D., M.P.H., Professor (Family and Community Medicine)

Hien Nguyen, M.D., M.A.S., Assistant Professor (Infectious Diseases)

Alberto Odir, M.D., Adjunct Professor (Nursing)

Sean Peisert, Ph.D., Assistant Adjunct Professor (Computer Science)

Jason Roaf, M.D., Assistant Clinical Professor (Psychiatry)

J. Anthony Seibert, Ph.D., Professor (Radiology)

Hendry Tan, M.D., M.S., Associate Professor (Psychiatry)

Xiaoang Yang, Ph.D., Assistant Professor (Biostatistics)

Peter Yellowlees, M.B.B.S., M.D, Professor (Computer Science)

Heather Young, Ph.D., R.N., G.N.P., F.A.A.N., Associate Vice Chancellor (Nursing)

Emeriti Faculty

Richard Walters, Ph.D., Professor Emeritus (Computer Science)

Affiliated Faculty

Mark Carroll, M.P.H., Lecturer (Pathology and Laboratory Medicine)

Jim Greene, M.D., M.S., Faculty (Pathology and Laboratory Medicine)

Wasiy Maloy, Ph.D. (Pathology and Laboratory Medicine)

Michael Minear, Chief Information Officer (UC Davis Health System)

Graduate Study.
The Group currently offers an M.S. degree in Health Informatics. The program is primarily designed for clinicians (M.D., D.O., D.V.M., V.M.D., M.P.H., Ph.D., R.N., others) and healthcare IT professionals with Bachelor’s degree. The course of study provides research-oriented training that spans the use of computer systems in medicine today, including methods for clinical data acquisition, storage, retrieval, the development, use and implementation of the electronic medical record, management of clinical data, and the use of medical decision support systems. A research project and thesis are mandatory degree requirements.

Preparation.
The Group encourages applications from clinicians and healthcare IT professionals who have had experience in the manipulation of clinical information. Basic qualifications include an advanced degree in a relevant field or the equivalent in work experience. Profound proficiency in a programming language is required. Applicants with extensive computer science or information technology background but little knowledge of clinical information would need to gain considerable practical experience in dealing with clinical information to be competitive in applying to the program.

Graduate Advisors.

M. Carroll (Pathology and Laboratory Medicine), E. Geraghty (General Medicine), M. Hogarth (Pathology and Laboratory Medicine), A. Odor (Nursing), P. Yellowlees (Psychiatry)

Courses in Health Informatics (MHI)

Graduate

202. Computer-Based Patient Records (4)

Lecture/discussion—3 hours; discussion—1 hour. Prerequisite: current enrollment within the Health Informatics graduate program or consent of instructor. Introduction and overview of computer-based clinical record systems. Topics include data modeling, health system standards and terminologies; security, privacy and confidentiality; workflow modeling; data visualization; legal; decision support; public health; and evidence-based practice. — II. (III) Odor

207. Decision Support Systems (4)

Lecture discussion—2 hours. Prerequisite: consent of instructor. Explores decision support systems for medical applications. Topics include medical decision making, uncertainty, review of existing decision support systems, knowledge engineering, data mining, and knowledge based systems. — II. (III) Maly

208. Medical Informatics in Web-Based Enterprise Computing (4)

Lecture—2 hours; discussion—2 hours. Introduction to the decision making processes and technologies that are involved in developing Web-based distributed enterprise applications in medicine. Focus on the Informationist’s role as a team member. — II. (III) Hogarth

209. Data Acquisition and Analysis (4)

Lecture—2 hours; discussion—1 hour; laboratory—3 hours. Examines the nature, acquisition, and analysis of medical data. Data ranges from signals of electrical potentials, sounds, text, images (still and motion), and data from nucleic acid and protein expression and sequencing instruments. — I. (III) Maly

211. Introduction to Health Informatics (4)

Lecture—3 hours; discussion—1 hour. Overview course to give the student a broad exposure to the field of Health Informatics. Topics covered include, but are not limited to, networking, information systems, coding, HL7, Security and HIPAA. — I. (II)

211V. Telemedicine (4)

Web virtual lecture—3 hours; web electronic discussion—1 hour. Issues for the development and maintenance of a successful telemedicine program with focus on strategic planning, clinical applications, project management, risk management and legal issues; reimbursement and contracting; human resources and program sustainability. — I, II, III, (II, III) Yellowlees

212. Computer Security in Health Informatics (4)

Lecture—3 hours; project. Prerequisite: course 210; 202. Critical thinking about basic concepts in computer security and privacy. How the computer security and privacy impact health informatics, ranging from electronic health records to telemedicine to remote, virtual surgery. — I, II, III. (II, III) Peisert

215. Beginning and Intermediate Programming in M (MUMPS) (3)

Lecture—3 hours. Project-oriented approach to fundamentals of programming in ANSI M (MUMPS) language. Basic syntax, Hierarchical file structure; arrays and string subscripts, induction and extrinsic functions. (S/U grading only).—I, II, III, (III) Walters

289A-E, G, I, Special Topics in Medical Informatics (1-5)

Lecture, laboratory, or combination. Prerequisite: consent of instructor. Special topics in (A) Data Acquisition, (B) Electronic Medical Information, (C) Computer Based Patient Records, (D) Decision Support, (E) Medical Image Analysis, (G) Biostatistics, (H) Modeling Biological Systems, (I) Coding Systems. May be repeated for credit when topic differs. — I, II, III, (II, III)

Greek

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289F. Database and Knowledge Management (4) Lecture/discussion—3 hours; term paper. Prerequisite: consent of instructor. Course objectives include understanding the informatics techniques for data capture, information management, and knowledge generation at a student will utilize throughout their career. May be repeated for credit—II, III, (II, II, III) Lych

289H. Modeling Biological Systems (4) Lecture—3 hours; laboratory—1 hours. Class size limited to 20 students. Create awareness of how modern computer graphics have led to VR/3D applications, and how they are modifying the teaching of medicine and in some cases the diagnosis and treatment of disease. May be repeated for credit—II, III, (II, II, III) Lych

299. Research in Health Informatics (1-12) Independent research in Health Informatics. (S/U grading only)—I, II, III, (II, II, III) Odin

Hebrew

See Classics, on page 198.

Hindi

See Classics, on page 198.

History

(Other College of Letters and Science)
Kathryn S. Olmsted, Ph.D., Chairperson of the Department
Department Office: 2216 Social Sciences and Humanities Building
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Faculty
Ali Ansooah, Ph.D., Associate Professor
Maria Giagioli, Ph.D., Professor
David Biale, Ph.D., Professor
UC Davis Prize for Teaching and Scholarly Achievement
Beverly Bassler, Ph.D., Professor
Ian Campbell, Ph.D., Assistant Professor
Diana Davis, Ph.D., Associate Professor
Carrie Decker, Ph.D., Assistant Professor
Edward Dickinson, Ph.D., Professor
Omnia El Shakry, Ph.D., Associate Professor
A. Katie Harris, Ph.D., Associate Professor
Ellen Higginbotham-O’Connor, Ph.D., Associate Professor
Quinn Javers, Ph.D., Assistant Professor
Ari Kelman, Ph.D., Professor
Kyu H. Kim, Ph.D., Associate Professor
Norma L. Laume, Ph.D., Professor
Lisa Materson, Ph.D., Associate Professor
Sally McKee, Ph.D., Professor
Susan G. Miller, Ph.D., Professor
Kathryn S. Olmsted, Ph.D., Professor
Academic Senate Distinguished Teaching Award
Lorena Oropeza, Ph.D., Associate Professor
Eric Rauchway, Ph.D., Professor
Academic Senate Distinguished Teaching Award
Marian Schlotterbeck, Ph.D., Professor
Academic Senate Distinguished Teaching Award
Andrés Reséndez, Ph.D., Professor
Michael Saler, Ph.D., Professor
Academic Senate Distinguished Teaching Award
Marian Schlotterbeck, Ph.D., Professor
Assistant Professor
Sudipta Sen, Ph.D., Professor
John Smolenski, Ph.D., Associate Professor

A.B. Major Requirements:

Preparatory Subject Matter (Plan I or II) .................................................. 20
Five lower division courses chosen from the following six fields, including at least two from one field, one from a second field, and one from a third field. The fifth course can be taken from any field.
(f) Within broad fields, a student may wish to concentrate some of the courses on a particular area or period, such as China or Great Britain or Medieval Europe. Special approval is not required.

Major Adviser. See the department’s website for updated information.

History and Philosophy of Science

See the History and Philosophy of Science program may count toward the History major. History and Philosophy of Science 130A fulfills requirements in the field of pre-industrial Europe. History and Philosophy of Science 130B, 150, and 180 fulfill upper division requirements in either the U.S. or Modern Europe field.