Quantitative Biology and Bioinformatics

[College of Biological Sciences]

The interdisciplinary minor in Quantitative Biology and Bioinformatics is an integrative program that introduces students to the quantitative and computational approaches that are redefining all disciplines in the biological sciences, from molecular and cell biology, through genetics and physiology, to ecology and evolutionary biology. Students in this minor will learn research tools that apply mathematical and computational methods, increase their insight into the strengths and limitations of quantitative approaches, and develop the interdisciplinary perspective that is now the foundation of modern biological research and training.

The minor in Quantitative Biology and Bioinformatics is open to all undergraduates regardless of major and is sponsored by the College of Biological Sciences.

Minor Program Requirements:

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<td>Quantitative Biology and Bioinformatics</td>
<td>18-24</td>
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Core Courses | 8-12 |
Programming | Computer Science Engineering 10 or 30 or the equivalent* | 4 |
Quantitative Biology: Biological Sciences 132 or Mathematics 134 | 4 |
Bioinformatics: Computer Science Engineering 124 or 129 | 4 |
Quantitative and Computational Preparation | 4 |
Complete one course from the following: Advanced Averages 115; Biomedical Engineering 102; Computer Science Engineering 122, 130; Mathematics 128A, 128B, 128C, 135A; Statistics 130A, 131A, 141A |

* The program requirements may be satisfied by previous experience and therefore may not entail college course credit. Please see your minor adviser for this determination and its possible impact on your unit requirements for the minor.

Restrictions. No more than two upper division courses from a single department may be offered in satisfaction of the minor requirements. Only one course used to satisfy a requirement for the minor may be applied toward a student's major.

Minor Adviser. Consult the Biology Academic Success Center (BASC), 1023 Sciences Laboratory Building; 530-752-0410; http://www.biosci.ucdavis.edu/BASC

Radiation Oncology

See Medicine, School of, on page 396.

Range Science

[College of Agricultural and Environmental Sciences]

Faculty. See Plant Sciences, on page 476.

Related Program. See Ecological Management and Restoration, on page 229.

Related Courses. See Plant Sciences 101, 112, 130, 131, 135; Nutrition 115; Soil Science 105, 120; Wildlife, Fish, and Conservation Biology 151.

Religious Studies

[College of Letters and Science]

Naomi Janowitz, Ph.D., Chair

Program Office. 213 Sproul Hall 530-752-1219; http://religions.ucdavis.edu

Faculty

Catherine Chin, Ph.D., Associate Professor
Allison Coudert, Ph.D., Professor
Mark Elmore, Ph.D., Assistant Professor
Naomi Janowitz, Ph.D., Professor
Meaghan O’Keefe, Ph.D., Assistant Professor
W. Flagg Miller, Ph.D., Associate Professor
Mairaj Syed, Ph.D., Assistant Professor
Baki Tezcan, Ph.D., Associate Professor
Archana Venkitasesan, Ph.D., Assistant Professor
Keith Watenpaugh, Ph.D., Associate Professor

Emeriti Faculty

Whalen W. Lai, Ph.D., Professor Emeritus

The Major Program

Religion is a major force in human experience. It has shaped the world’s history, literature, art, culture, politics, ethics, and economics. In addition to offering courses in all the major religious traditions (Judaism, Christianity, Islam, Hinduism, and Chinese and Japanese religions), the Religious Studies Program has developed cross-cultural courses dealing with religious symbols, myths, and rituals in written texts, art, theater, and film, and the Internet, as well as thematic courses dealing with such topics as religion and the body, the rise of fundamentalism, religion and science, and religion and violence.

The Program. The major introduces students to the academic study of religion. Students can choose from a broad range of courses both in the program itself and in other departments and programs-history, philosophy, psychology, sociology, anthropology, American studies, classics, and medieval studies. In addition to studying religious thought per se, students in the major can also study the way religion has shaped human behavior in such matters as family life, gender roles, ethnicity, artistic life, concepts of individual freedom, the pursuit of science, and economics. For some students, Religious Studies is an appropriate second major and combines well with anything from philosophy to international agricultural development, political science, and the physical sciences.

Career Alternatives. Because of the program’s focus on developing critical thinking, writing, and reading skills, students who major in Religious Studies are well prepared to enter a variety of careers, including teaching, the health professions, law, business, and government. In an increasingly global society, knowledge of the world’s religious traditions and practices has become an essential part of a student’s education.

A.B. Major Requirements:

Preparatory Subject Matter................. 20
(A) One course from the Religious Studies 1 series ............................................. 4
(B) Four courses from other Religious Studies lower division offerings...................... 16

Depth Subject Matter....................... 40
Religious Studies 100.......................... 4
Nine upper division Religious Studies courses*: .................................................. 36
* Four of these must be upper division courses related to religion that are offered by other departments and taken with the approval of a Religious Studies adviser.

Total Units for the Major..................... 60
Recommended. A reading knowledge of a foreign language is highly recommended.

Course Equivalents. The major advisers have a list of lower and upper division courses that can substitute for courses suggested above.

Major Advisers. Consult the Program office.

Minor Program Requirements:

Preparatory Subject Matter................. 20
Religious Studies 100.......................... 4
Lower division course......................... 4
Upper division courses........................ 16
Religious Studies 100 required. Some substitutions from other departments or programs allowed with consent of adviser.

Minor Advisers. Same as major advisers.

Honors and Honors Program. A student becomes eligible for graduation with honors by meeting the minimum GPA and course requirements established by the College of Letters and Science. Upon successful completion of the additional requirements of the College of Letters and Science and Honors Program, individual students may be recommended