202H. Major Issues in Historical Interpretation; United States (4)
Seminar—3 hours; term paper. Prerequisite: graduate standing. Fundamental issues and debates in the study of history. United States. Readings, papers, and class reports. May be repeated for credit when a different subject area is studied. Offered in alternate years.

202I. History and Philosophy of Science (4)
Seminar—3 hours; term paper. Prerequisite: graduate standing. Readings, papers, and class reports. May be repeated for credit when a different subject area is studied. Offered in alternate years.

203A. Research Seminar (4)
Seminar—3 hours; tutorial—1 hour. Prerequisite: consent of instructor. Research on topics to be chosen by the student and supervised by a Ph.D. instructor. May be repeated for credit. (Deferred grading only, pending completion of sequence.) Offered irregularly.

203B. Research Seminar (4)
Seminar—3 hours; tutorial—1 hour. Prerequisite: consent of instructor. Research on topics to be chosen by the student and supervised by a Ph.D. instructor. May be repeated for credit. (Deferred grading only, pending completion of sequence.) Offered irregularly.

204. Historiography (4)
Seminar—3 hours; term paper. Major issues in the philosophy and methodology of history. —F (F).

205. Medieval History (4)
Seminar—3 hours. Prerequisite: courses 121A, 121B, 121C recommended. Topics in the history of medieval and early Renaissance Europe. Offered irregularly.

245. Modern European History (4)
Seminar—3 hours. Prerequisite: course 201E. Primary sources required. Topics in the history of modern France and Germany. May be repeated one time for credit. Offered irregularly.

261. Latin American History (4)
Seminar—3 hours. Prerequisite: two courses in Latin American history; reading knowledge of Spanish or Portuguese. Offered irregularly.

271A. United States History (4)
Seminar—3 hours; term paper. Prerequisite: course 201L or 202H. Research in literature, methods, and sources on aspects of United States history, culminating in each student completing a research paper in the field by the end of the second quarter. May be repeated for credit. (Deferred grading only, pending completion of sequence.) Offered irregularly.

271B. United States History (4)
Seminar—3 hours; term paper. Prerequisite: course 201L or 202H. Research in literature, methods, and sources on aspects of United States history, culminating in each student completing a research paper in the field by the end of the second quarter. May be repeated for credit. (Deferred grading only, pending completion of sequence.) Offered irregularly.

History and Philosophy of Science

[College of Letters and Science]
Joseph Dumit, Ph.D., Program Director
Program Office, 101 Young Hall

Committee in Charge

History and Philosophy of Science—24

Minor Adviser, 101 Young Hall, stevekirs@ucdavis.edu.

Horticulture and Agronomy

(A Graduate Group)

Group Office, 1224 Plant and Environmental Sciences Building
530-752-7738, http://ggha.ucdavis.edu

Faculty
Douglas O. Adams, Ph.D., Professor (Viticulture and Enology)
Kassim AlKhalih, Ph.D., Professor (Plant Sciences)
Diane M. Beckles, Ph.D., Associate Professor (Plant Sciences)
Alan B. Bennett, Ph.D., Professor (Plant Sciences)
Alison M. Berry, Ph.D., Professor (Plant Sciences)
Arnold J. Bloom, Ph.D., Professor (Plant Sciences)
Eduardo Blumwald, Ph.D., Professor (Plant Sciences)
Kent J. Bradford, Ph.D., Professor (Plant Sciences)
Patrick H. Brown, Ph.D., Professor (Plant Sciences)
E. Charles Brummer, Ph.D., Professor (Plant Sciences)
Dario Cantu, Ph.D., Assistant Professor (Viticulture and Enology)
Abhay A. Dandekar, Ph.D., Professor (Plant Sciences)
Jorge Dubcovsky, Ph.D., Professor (Plant Sciences)
Jan Dvorak, Ph.D., Professor (Plant Sciences)
Valerie T. Eviner, Ph.D., Associate Professor (Plant Sciences)
Albert J. Fischer, Ph.D., Professor (Plant Sciences)
Amelie Gaudin, Ph.D., Assistant Professor (Plant Sciences)
Paul L. Gepts, Ph.D., Distinguished Professor (Plant Sciences)
Matthew E. Gilbert, Ph.D., Assistant Professor (Plant Sciences)
Thomas M. Grodzeli, Ph.D., Professor (Plant Sciences)
Robert Hjimans, Ph.D., Associate Professor (Environmental Science and Policy)
William Horwath, Ph.D., Professor (Land, Air and Water Resources)
Kentarou Inoue, Ph.D., Professor (Plant Sciences)
Louise E. Jackson, Ph.D., Professor (Land, Air and Water Resources)
Marie A. Jasienski, Ph.D., Associate Professor (Plant Sciences)
Judy Jernstedt, Ph.D., Professor (Plant Sciences)
Steven J. Knopp, Ph.D., Professor (Plant Sciences)
Emilio A. Laca, Ph.D., Professor (Plant Sciences)
J. Heinrich Lieth, Ph.D., Professor (Plant Sciences)
Mark A. Matthews, Ph.D., Professor (Viticulture and Enology)
Maëli Melotte, Ph.D., Assistant Professor (Plant Sciences)
Richard W. Michelmore, Ph.D., Distinguished Professor (Plant Sciences)
Daniel B. Neale, Ph.D., Professor (Plant Sciences)
Sharan O’Neill, Ph.D., Professor (Plant Biology)
Daniel Paller, Ph.D., Professor (Plant Sciences)
Jeffrey S. Ross-Barra, Ph.D., Associate Professor (Plant Sciences)
Daniel E. Runcie, Ph.D., Assistant Professor (Plant Sciences)
Human Anatomy

See Courses in Cell Biology and Human Anatomy (CHA), on page 432.

Human and Community Development

See Human Ecology, on page 373.

Human Development

(Factory of Agricultural and Environmental Sciences)

Faculty

See Human Ecology, on page 373.

The Major Program

Human development explores the developmental processes in humans throughout the life cycle. Biological, cognitive, and personality/sociocultural aspects of development are studied.

The Program. Human development majors complete a group of preparatory courses in anthropology, general biology, genetics, history, philosophy, physiology, psychology, and statistics. Upper division students can design their programs in consultation with a faculty member to emphasize particular interest. For instance, students can study the cognitive, social, and biological aspects of human development while emphasizing child or adult development.

Internships and Career Alternatives. At least one practicum course is required. A second practicum or supervised internship can be used to fulfill the restricted elective requirement for the major. In addition, students can intern in schools, early childhood education or senior centers, hospitals, rehabilitation

current applied research within agroecology, crop improvement, crop production, postharvest biology

—S. (J. Walker)

203. Research Perspectives in Horticulture (3)

Lecture—1 hour; lecture/discussion—2 hours. Prerequisite: Plant Biology 111 and 112, or Environmental Horticulture 172. Following lectures/discussions of scientific methodology, students develop research proposals aided by classroom discussions and individual interactions with instructors. Lectures and critiques of “classical papers” provide a sense of the evolution of the current concepts in perennial plant biology. —W. (W.) Metelko, Zwieniecki

251. Modeling Horticultural Systems (4)

Lecture—3 hours; laboratory—3 hours. Prerequisite: Plant Sciences 142, calculus, or consent of instructor. Development and application of models. Emphasis on physiological and ecological models, with examples from areas of interest to class participants. Applications to horticultural systems. Offered in alternate years. —W. (J.) Lieth

290. Seminar (1-12)

Seminar—1 hour. Prerequisite: graduate standing at UCD. Seminars presented by invited speakers, students, or faculty on selected topics in horticulture. (S/U grading only.) —S. (J.)

298. Group Study (1-5)

F, W, S, S., Su. (F, W, S.)

299. Research (1-12)

Prerequisite: consent of instructor. Research. May be repeated for credit. (S/U grading only.) —F, W, S, S., Su. (F, W, S., Su.)