written and oral presentation of results will be stressed. (Same course as Ecology/Entomology 225.)—(I, II, III) Karl Korb

231. Mathematical Methods in Population Biology (3)
Lecture—3 hours. Prerequisite: Mathematics 16C or 21C or the equivalent. Mathematical methods used in population biology: Linear and nonlinear difference equation and differential equation models are studied, using stability analysis and qualitative methods. Partial differential equation models are introduced. Applications to population biology models are stressed. (Same course as Ecology 231.)—I. (I) Hastings

233. Computational Methods in Population Biology (3)
Lecture laboratory—2 hours; discussion; laboratory—1 hour. Prerequisite: a course in theoretical ecology (e.g., Ecology 231 or an equivalent to Environmental Science and Policy 121 from your undergraduate institution) or consent of instructor. Programming experience required. Numerical methods for simulating population dynamics using the computational software package R. Emphasis placed on model formulation and development, theoretical concepts and philosophical principles to guide simulation efforts, model parameterization, and implementing simulations with R. (Same course as Ecology 233.) Offered in alternate years. (S/U grading only.)—I—II, Basket, Schreiber

250A. Interdisciplinary Approaches to Biological Invasions (4)
Lecture/discussion—4 hours. Prerequisite: graduate standing. An integrative consideration of biological invasions, including an overview of concepts from ecology, ecological theory, evolution, genetics, philosophy, and other areas. Emphasis on potential contributions of each area for interdisciplinary problem solving.—I. (I)

250B. Interdisciplinary Approaches to Biological Invasions (4)
Lecture/discussion—4 hours. Prerequisite: graduate standing. An integrative consideration of biological invasions, including an overview of concepts from history, sociology, communications, law, policy, management, and other areas. Emphasis on potential contributions of each area for interdisciplinary problem solving.—II. (II)

251. Collaborative Project in Biological Invasions (3)
Project, discussion—1 hour. Prerequisite: course 250A, consent of instructor, and consent of instructor. A year-long interdisciplinary collaborative project focusing on biological invasions, resulting in a paper or another suitable product presented at a symposium at the conclusion of the project. May be repeated up to five times. (S/U grading only.)—I, II, III. (I, II, III)

271. Research Conference in Ecology (1)
Seminar—1 hour. Prerequisite: consent of instructor. Seminars presented by visiting lecturers, UC Davis faculty, and graduate students. May be repeated for credit. (Same course as Ecology 296.) (S/U grading only.)—I, II, III. (I, II, III)

292. Topics in Ecology and Evolution (1)
Seminar—1 hour. Prerequisite: graduate standing. Seminar presented by visiting lecturers, UC Davis faculty and graduate student. May be repeated for credit. (Same course as Ecology 292.) (S/U grading only.)—I, II, III. (I, II, III)

296. Seminar in Geographical Ecology (2)
Seminar—2 hours. Prerequisite: Evolution and Ecology 100 or 101 or consent of instructor. Recent developments in theoretical and experimental biogeography, historical biogeography and related themes in systematics, the biology of colonizing species, and related topics. (Same course as Geography 214.) (S/U grading only.)—III (III) Shapiro

298 Group Study (1-5)
Prerequisite: graduate standing and consent of instructor. (S/U grading only.)

299. Research (1-12)
Prerequisite: graduate standing and consent of instructor. (S/U grading only.)

Population Health and Reproduction

See Veterinary Medicine, School of, on page 539.

Precision Agriculture

[College of Agricultural and Environmental Sciences]
The Department of Biological and Agricultural Engineering offers a minor in Precision Agriculture, the latest farming concept that optimizes fertilizer, pesticide and water use, while minimizing environmental concerns.

Minor Program Requirements:
This minor acquaints students with recent developments and their applications to agriculture, in geographic information systems (GIS), global positioning systems (GPS), variable rate technologies (VRT), crop and soil sensors, and remote sensing. The minor prepares students for challenging positions in site-specific crop management as we enter the “information age” in agriculture.

UNITS

Precision Agriculture

Applied Biological Systems Technology/Landscape Architecture 150 and Environmental remote Sensing 186 and
166. (Select 12 of the following courses: 186. ................................. 9
Select 9 or more units from Applied Biological Systems Technology 181N, 182, Plant
Sciences 100A, 100AL, 100B, 100BL, 100C, 100CL, 110A, 110B, 110BL, 110C, Plant Sciences 120, 120L, 130 Statistics 101, Environmental and Resource Sciences 186, Soil Science 109................................. 9

Minor Advisers:
S.K. Upadhyaya, D.K. Giles

Preventive Veterinary Medicine

See Veterinary Medicine, School of, on page 539.

Psychiatry

See Medicine, School of, on page 396.

Psychology

[College of Letters and Science]
Paul Hastings, Ph.D., Chairperson of the Department Department Office. 133 Young Hall 530-752-1880, http://psychology.ucdavis.edu

Faculty
Karen L. Bales, Ph.D., Professor
Shelley A. Blais, Ph.D., Associate Professor
Cameron S. Carter, M.D., Professor (Psychiatry and Behavioral Sciences)
Rand D. Conger, Ph.D., Professor (Human Ecology)
David P. Corrino, Ph.D., Professor (Linguistics)
Richard G. Coss, Ph.D., Professor (Psychology)
Victoria L. Cross, Ph.D., Lecturer
Arne D. Ekstorm, Ph.D., Associate Professor (Human Ecology)
Robert A. Emmans, Ph.D., Professor (Psychology)
Emilio Ferrer-Caja, Ph.D., Professor (Psychology)
Jay Geng, Ph.D., Associate Professor (Psychology)
Simona Ghetti, Ph.D., Professor (Psychology)
Katherine W. Gibbs, Ph.D., Lecturer (Psychology)
Gail S. Goodman, Ph.D., Professor (Psychology)
Karatharine Graf Estes, Ph.D., Assistant Professor (Psychology)
Kevin J. Grimm, Ph.D., Associate Professor (Psychology)
Paul D. Hastings, Ph.D., Professor (Psychology)
Gregory M. Herek, Ph.D., Professor (Psychology)
Petr Janata, Ph.D., Professor (Psychology)
Leah A. Krubitzer, Ph.D., Professor (Psychology)
Kristin L. Lagattuta, Ph.D., Associate Professor (Psychology)
Alison M. Ledgerwood, Ph.D., Associate Professor (Psychology)
Debra L. Long, Ph.D., Professor (Psychology)
Academic Senate Distinguished Teaching Award (Psychology)
Steven J. Luck, Ph.D., Professor (Psychology)
George R. Mangun, Ph.D., Professor (Psychology)
Wesley G. Moons, Ph.D., Assistant Professor (Psychology)
Lisa M. Oakes, Ph.D., Professor (Psychology)
Cynthia Pickett, Ph.D., Associate Professor (Psychology)
Elizabeth A. Post, Ph.D., Lecturer (Psychology)
Charan Ranganath, Ph.D., Professor (Psychology)
Susan M. Rivera, Ph.D., Professor (Psychology)
Richard W. Rabins, Ph.D., Professor (Psychology)
Jeffrey C. Schank, Ph.D., Professor (Psychology)
Eva Scheepers, Ph.D., Lecturer (Psychology)
Phillip R. Shaver, Ph.D., Professor (Psychology)
Jeffrey W. Sherman, Ph.D., Professor (Psychology)
Dean K. Simonton, Ph.D., Professor (Psychology)
UC Davis Prize for Teaching and Scholarship Achievement (Psychology)
Danielle S. Stolzenberg, Ph.D., Assistant Professor (Psychology)
Tamara Y. Swaab, Ph.D., Associate Professor (Psychology)
Ross A. Thompson, Ph.D., Professor (Psychology)
Brian C. Trainor, Ph.D., Professor (Psychology)
Matthew J. Traxler, Ph.D., Professor (Psychology)
Keith F. Widaman, Ph.D., Professor (Psychology)
Brian J. Wiltgen, Ph.D., Assistant Professor (Psychology)
Andrew P. Youenlina, Ph.D., Professor (Psychology)
Nolan W. Zane, Ph.D., Professor (Psychology)
Emeriti Faculty
Linda P. Acredolo, Professor Emerita
Charan Ranganath, Ph.D., Professor Emeritus
Karen P. Ericksen, Ph.D., Professor Emerita
Albert A. Harrison, Ph.D., Professor Emeritus

Quarter Offered: I—Fall, II—Winter, III—Spring, IV—Summer; 2015-16 offering in parentheses
Pre-Fall 2011 General Education (GE): Art/Humanities: A,H—Arts and Humanities; SCI—Science and Engineering; SOC—Social Sciences; Div—Domestic Diversity; WR—Writing Experience
Fall 2011 and on Revised General Education (GE): AH—Arts and Humanities; SE—Science and Engineering; SS—Social Sciences; ACHG—American Cultures; DD—Domestic Diversity; OL—Oral Skills; QQ—Quantitative; SL—Scientific; VL—Visual; WC—World Cultures; WE—Writing Experience

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