181. Ecology and Evolution of Animal-Plant Interactions (4)
Lecture—1.5 hours; lecture/discussion—1.5 hours; term paper; extensive writing or discussion. Prerequisite: Biological Sciences 2B and 2C required. Introduction to research methods in biology. Presentation and discussion of research by faculty, graduate, and undergraduate students. May be repeated for credit up to a total of 6 units. (P/NP grading only.) GE credit: SciEng|QL, SE, SL, WE.—F. Yang

189. Introduction to Biological Research (1)
Discussion—1 hour. Prerequisite: upper division standing in Evolution and Ecology or related biological science; consent of instructor. Introduction to research methods in biology. Presentation and discussion of research by faculty, graduate, and undergraduate students. May be repeated for credit up to a total of 6 units. (P/NP grading only.) GE credit: SciEng|QL, GI, SE, SI, WE.—F. Strauss

190. Undergraduate Seminar (2)
Seminar—2 hours. Prerequisite: upper division standing in the biological sciences or a related discipline. Students report on current topics with emphasis on integration of concepts, synthesis, and state-of-the-art research approaches. Reviews of literature and reports of undergraduate research may be included. May be repeated for credit. (P/NP grading only.) GE credit: SciEng|SE—F. F. Shapiro

192. Internship (1-12)
Internship—3-36 hours. Prerequisite: completion of 84 units and consent of instructor. Work experience off and on campus in all subject areas offered in the Department of Evolution and Ecology. Internships supervised by a member of the faculty. (P/NP grading only.—F. W. S. J.

194A. Research Honors (2)
Laboratory—6 hours. Prerequisite: students who have completed 135 units and qualify for the honors program (as defined by the current catalog). Students pursue intensive research under the guidance of a faculty adviser. Students are expected to complete the full three-quarter sequence culminating in the writing of an honors thesis. (Deferred grading only, pending completion of sequence.) GE credit: SciEng|SE, WE—F. W. S. J.

194B. Research Honors (2)
Laboratory—6 hours. Prerequisite: students who have completed 135 units and qualify for the honors program (as defined by the current catalog). Students pursue intensive research under the guidance of a faculty adviser. Students are expected to complete the full three-quarter sequence culminating in the writing of an honors thesis. (Deferred grading only, pending completion of sequence.) GE credit: SciEng|SE, WE—F. W. S. J.

194C. Research Honors (2)
Laboratory—6 hours. Prerequisite: students who have completed 135 units and qualify for the honors program (as defined by the current catalog). Students pursue intensive research under the guidance of a faculty adviser. Students are expected to complete the full three-quarter sequence culminating in the writing of an honors thesis. (Deferred grading only, pending completion of sequence.) GE credit: SciEng|SE, WE—F. W. S. J.

197T. Tutoring in Biological Sciences 2B (1-2)
Tutoral—3-6 hours. Prerequisite: Biological Sciences 18 or Biological Sciences 2B with a grade of B or better. Assisting the instructor by tutoring students in a Biological Sciences 2B laboratory. Tutoring is voluntary and is supervised by a Laboratory Teaching Assistant and a Biological Sciences 2B Laboratory Coordinator. May be repeated three times for credit. (P/NP grading only.) GE credit: SciEng|SE—F. W. S. J.

198. Directed Group Study (1-5)
(P/NP grading only.—F. W. S. J.

199. Special Study for Advanced Undergraduates (1-5)
(P/NP grading only.) GE credit: SciEng|SE—F. W. S. J.

Graduate
210. Molecular Phylogenetic Analysis (3)
Lecture—2 hours; laboratory—3 hours. Theory and practice of inferring phylogenetic trees using molecular sequence data. Practical techniques for obtaining sequence data, advantages and disadvantages of common approaches for inferring trees, statistical methods for comparing alternative hypotheses. (Same course as Nematology 210.) Offered irregularly.—Nadler

211. Applied Phylogenetics (3)
Lecture—2 hours; laboratory—3 hours. Prerequisite: course 103 or 210 or Population Biology 200C or the equivalent, graduate standing. Application of phylogenetic methods to fields outside of systematics. Core lectures/labs in remedial phylogenetics, phylogeography, conservation and comparative morphology. Special topics vary yearly. May be repeated one time for credit.—(W) Moore, Wainwright

220. Species and Speciation (3)
Lecture—2 hours; discussion—1 hour. Prerequisite: course 100, Philosophy 10B or the equivalent; History and Philosophy of Science 130B recommended. Current status of species concepts, models of speciation, current research on speciation, and relevance of species to conservation biology. Offered in alternate years.—W. Shapiro

231. Principles of Biological Data Analysis (3)
Lecture—2 hours; laboratory—3 hours. Introduction to the principles of data analysis, experimental design, statistical modeling, inference, and hypothesis testing. Statistical methods of particular importance in biological applications will be emphasized. Examples will be presented from the fields of ecology and evolutionary genetics. Offered irregularly. (S/U grading only.—Rannala

240. Paleobotany and Angiosperm Evolution (4)
Lecture—3 hours; laboratory—3 hours. Prerequisite: Plant Biology 108, 116, or course 140. Critical analysis of the plant fossil record as a source of evidence on origin, evolution, and phylogeny of the angiosperms. Cretaceous and Tertiary climates, geographic history of modern taxa, and origin of modern vegetation types. Offered irregularly.

290C. Research Conference (1)
Discussion—1 hour. Prerequisite: graduate standing and consent of instructor. Presentation and discussion of faculty and graduate student research in biology. May be repeated for credit. (S/U grading only.—F. W. S. J.

298. Group Study (1-5)
(S/U grading only.—F. W. S. J.

299. Research (1-12)
(S/U grading only.—F. W. S. J.

Professional
300. Methods of Teaching (2)
Lecture—1 hour; discussion—1 hour. Prerequisite: graduate standing and consent of instructor. Practical experience in the methods and problems of teaching. Includes analyses of texts and supporting material, discussion of teaching techniques and preparing and conducting of laboratory and discussion sections. May be repeated for credit for a maximum of 8 units. (S/U grading only.—F. W. S. J.

Exercise Biology
See Neurobiology, Physiology, and Behavior, on page 478.

Family and Community Medicine
See Medicine, School of, on page 427.

Feminist Theory and Research
Wendy Ho, Ph.D., Adviser
Program Office. 1219 Hart Hall 530-752-6429
http://gsws.ucdavis.edu/welcome

Graduate Study, The Gender, Sexuality and Women's Studies Program at UC Davis offers a Designated Emphasis in Feminist Theory & Research. Currently graduate students in the following fourteen affiliated Ph.D. programs are eligible to participate: Anthropology, Comparative Literature, Cultural Studies, Education, English, French, German, Geography, History, Native American Studies, Performance Studies, Psychology, Sociology, Spanish, and the Study of Religion. The Designated Emphasis will have this noted on their transcripts and their Ph.D. diploma will note the “Special Emphasis in Feminist Theory & Research.” Students must complete all the requirements for the Ph.D. in their home department. The requirements for the Designated Emphasis in Feminist Theory and Research are the successful completion of the two core courses, Women's Studies 200A and Women's Studies 200B, and two additional courses focusing on gender, sexuality and women's studies; one in the student's home department and one outside their home department. A member of the DE affiliated faculty must be a member of the student's qualifying examination. Analysis of gender or sexuality is expected to be a central component of both the student's qualifying examination and doctoral research. Students should consult with the Chair of the Designated Emphasis in Feminist Theory and Research before enrolling in a graduate course for which they wish to receive credit to ensure that it will count toward fulfilling the requirements of the Designated Emphasis. If possible, please bring a copy of the syllabus or an expanded course description to your meeting with the Chair.

Graduate Adviser, Wendy Ho in 1219 Hart Hall 530-752-6429; waho@ucdavis.edu.