Comprehensive study of career opportunities available in animal science. Field experience is offered in specific areas.

**185T. Topics in Animal Science (1-4; max total 4 per discipline if no topic repeated)**
Prerequisites: junior standing and permission of instructor. Anatomy, physiology, pathology, nutrition, genetics, livestock management. Topics may require labs.

**186. Animal Science Seminar (1)**
Prerequisite: senior standing or permission of instructor; 12 upper-division units in the major. Latest developments in research; assigned papers in animal science to be presented in both oral and written form.

**187. Women's Equestrian (2)**
(See ATHL 181.)

**190. Independent Study (1-3; max total 6)**
See *Academic Placement — Independent Study*. Approved for *SP* grading.

**194. Agricultural Internship (1-8; max total 8)**
Prerequisites: junior or senior standing and approval of internship committee. Emphasis on development of decision-making ability through industrial experience integrated with basic principles acquired in the classroom. *CR/NC* grading only.

**196. Enterprise Management (1; max total 6)**
Prerequisites: A Sci 21, 31, or 41; Me Ag 3; or permission of instructor; concurrent participation in project program required. Theory and field application of management principles in beef, sheep, swine, and other appropriate animal science enterprises.

### *Agricultural Education (Ag Ed)*

**80. Undergraduate Research (1-4; max total 4)**
Open to freshmen and sophomores with permission of instructor. Exploratory work on a suitable agricultural problem in agricultural education. Approved for *SP* grading.

**115. FFA Activities (2; max total 4)**
Organization and administration of various FFA activities. Parliamentary procedure and meeting organization; committee work and structure.

**135. Introduction to Agricultural Education (3)**
Survey of agricultural education in California, including qualifications for teaching agriculture, structure and content of vocational agriculture programs. Supervision of vocational youth organizations.

**150. Agricultural Resources and Computer Applications (3)**
Prerequisite: senior standing or permission of instructor; 12 upper-division units in the major. Development and application of techniques for obtaining and using resource materials including government documents, university and experiment station reports. Development of computer skills utilized in agricultural education. (2 lecture, 2 lab hours) (Computer lab fee, $15)

**160T. Topics in Agriculture (1-4; max total 6 per discipline if no topic repeated)**
Prerequisites: junior standing and permission of instructor. Agricultural education. Topics may require lab hours.

**180. Undergraduate Research (1-4; max total 4)**
Open to juniors or seniors with permission of instructor. Exploratory work on a suitable agricultural problem in agricultural education. Approved for *SP* grading.

**187. Organization, Administration, and Supervision of Agricultural Education (3)**
Prerequisite: senior standing. A study of the California and federal plans for vocational education as they pertain to agricultural education.

**189. Education in Agricultural Mechanics (3)**
Prerequisites: Me Ag 1; junior standing. Strategies for organizing, teaching, and administering educational programs in agricultural mechanics for youth and adults.

**190. Independent Study (1-3; max total 6)**
See *Academic Placement — Independent Study*. Approved for *SP* grading.

### *Agricultural Sciences and Technology (AST)*

**197. Clinic Project (3; max total 6)**
Prerequisite: permission from clinic project adviser. Student team works with faculty adviser and develops client liaison on client identified problem. Projects are pre-selected. Team will develop a solution to the client's problem, provide a written report, and make a group presentation.

## GRADUATE COURSES

The following courses are open to students who have been accepted into the graduate program. Students who are not in graduate standing should contact the department graduate coordinator prior to enrolling.

### *Agriculture (Agri)*

**200. Biometrics in Agriculture (3)**
Prerequisite: Math 101 or Plant 99, permission of instructor. Advanced concepts in the design of agricultural experiments. Emphasis is placed on the selection of appropriate designs to meet the objectives