

**GRADUATE COURSES—AGRICULTURAL SCIENCES**

*(See Course Numbering System—Definitions and Eligibility)*

**AGRICULTURE (Agri)**

**200. Biometrics in Agriculture (3)**

Prerequisite: Math 40; permission of instructor. Statistical principles in agricultural research. Emphasis on collection, summarization of data and the design, conduct, analysis, and interpretation of experiments.

**210T. Topics in Agricultural Economics (3; max total 15)**

Prerequisite: upper division agricultural economics courses appropriate to study topic; permission of instructor. Agricultural marketing, farm management and production analysis, price, credit, and land economics study areas.

**219. Seminar in Agricultural Economics (1–4; max total 4)**

Prerequisite: permission of instructor. Written and oral reports in recent literature and problems related to agricultural economics.

**220. Readings in Agriculture (2–3)**

Prerequisite: permission of instructor. Individually directed readings in a field of special concern to the student's graduate program; appropriate reports and evaluation required.

**221T. Topics in Food Science (3; max total 12)**

Prerequisite: upper division food science course appropriate to study topic, permission of instructor. Advanced studies in a given area: food preservation; processing effect on chemical components; flavor, texture, and other quality factors in foods.

**229. Seminar in Food Science (1; max total 4)**

Prerequisite: permission of instructor. Investigation of current research and problems related to food science. Oral and written reports.

**230T. Topics in Mechanized Agriculture (3; max total 12)**

Prerequisite: upper division mechanized agriculture course appropriate to study topic or permission of instructor. Advanced studies in a given area: farm power and machinery, agricultural processes, machinery management.

**240T. Topics in Animal Science (3; max total 12)**

Prerequisite: upper division animal science appropriate to study topic; permission of instructor. Investigation of topic in animal science: anatomy, physiology, pathology, nutrition, genetics, or economics.

**241. Endocrine and Reproductive Physiology (3)**

Prerequisite: Chem 8. Physiology which deals with neural and hormonal integration and control of the animal body, including scientific aspects of the processes of reproduction and application of current knowledge in improving reproductive efficiency.

**242. Environmental Physiology of Domestic Animals (3)**

Prerequisite: A Sci 110, 155; Chem 2A; permission of instructor. A study of environmental factors affecting domestic animals under field and controlled conditions.

**243. Metabolism and Energy Physiology (3)**

Prerequisite: Chem 8. Current aspects of the integral processes involved in metabolism and energy physiology of laboratory and farm animals. Application of the principles concerned in intermediary metabolism. Selected readings in the current literature within the field.

**244. Vitamin and Mineral Nutrition (3)**

Prerequisite: A Sci 70. A survey of the biochemical and physiological importance of vitamins and minerals in the nutrition of man and his animals. Included is the diagnosis, prevention and treatment of both vitamin and mineral deficiencies.