AGRICULTURE (AGRI)

AGRI 500 INDEPENDENT STUDY OR RESEARCH1-3 Credits
For students seeking an individual problem in agriculture.
Add Consent: Instructor Consent
Notes: The number of credit hours is determined by the topic and the amount of work required.
Requirements: Permission of instructor, Dean of Graduate Studies, and Academic Vice President.

AGRI 511 CONSERVATION BIOLOGY3 Credits
This course will provide a broad overview of the field of conservation biology including fundamental biological and ecological principles, patterns and threats to biodiversity, causes of population declines and extinction, techniques used in conservation biology, and conservation economics and policy.
Dual-listed: AGRI 411

AGRI 520 RANGE SHORT COURSE2 Credits
An intensive summer workshop covering all contemporary areas of range management.
Requirements: Additional fees.

AGRI 526 WILDLIFE RESEARCH AND MANAGEMENT3 Credits
Field and laboratory techniques for studying, evaluating, and managing wildlife and their habitats are described and demonstrated. Field trips required.
Prerequisites: AGRI 235
Dual-listed: AGRI 426

AGRI 527 ANIMAL ANATOMY AND PHYSIOLOGY3 Credits
Principles of physiology as related to gross anatomy, disease, and management practices of mammals.
Prerequisites: AGRI 132 and BIOL 225
Co-requisites: AGRI 527L
Notes: Recommended for pre-veterinary students.

AGRI 527L ANIMAL ANATOMY AND PHYSIOLOGY LABORATORY1 Credit
Lab experience.
Co-requisites: AGRI 527
Notes: Recommended for pre-veterinary students.

AGRI 528 HABITAT INVENTORY ANALYSIS1 Credit
Rangeland and monitoring inventory techniques and vegetation sampling methods related to rangeland vegetation condition and degree of use.
Prerequisites: AGRI 242 and AGRI 339
Co-requisites: AGRI 528L
Dual-listed: AGRI 428

AGRI 528L HABITAT INVENTORY ANALYSIS LABORATORY2 Credits
Field lab experience.
Co-requisites: AGRI 528

AGRI 535 WILDLIFE MANAGEMENT PRACTICUM3 Credits
Seminar-style course that will bring together wildlife professionals, natural resource managers, livestock producers, environmentalists and others interested in wildlife management. Participants will describe, discuss, and debate existing programs and issues on private and public lands. Field trips required.
Dual-listed: AGRI 435

AGRI 536 RANGELAND AND FIRE ECOLOGY3 Credits
Principles of range ecology using an approach treating plants, animals and humans as a whole. Includes composition, structure, processes, adaptations to environmental factors, biotic relationships, and problems of environmental quality and resources use. The role of fire in rangeland ecosystems, the characteristics of fire, and use of fire in maintaining native ecosystems will be explored. Field trips may be required.
Prerequisites: AGRI 242
Dual-listed: AGRI 436

AGRI 538A LAND RESOURCE MANAGEMENT PLANNING I1 Credit
Inventory of soils, vegetation, water, wildlife, timber, mineral, recreation, and cropland resources of a selected farm/ranch operation or conservation area and development of a detailed management plan. Techniques of management of private and public lands.
Prerequisites: AGRI 141, AGRI 242, AGRI 245, AGRI 334, AGRI 339, and AGRI 350
Co-requisites: 538B

AGRI 538B LAND RESOURCE MANAGEMENT PLANNING II2 Credits
Inventory of soils, vegetation, water, wildlife, timber, mineral, recreation, and cropland resources of a selected farm/ranch operation or conservation area and development of a detailed management plan. Techniques of management of private and public lands.
Prerequisites: AGRI 141, AGRI 242, AGRI 245, AGRI 334, AGRI 339, and AGRI 350
Co-requisites: 538A

AGRI 538C LAND RESOURCE MANAGEMENT PLANNING III3 Credits
Inventory of soils, vegetation, water, wildlife, timber, mineral, recreation, and cropland resources of a selected farm/ranch operation or conservation area and development of a detailed management plan. Techniques of management of private and public lands.
Prerequisites: AGRI 141, AGRI 242, AGRI 245, AGRI 334, AGRI 339, and AGRI 350
Requirements: Students must achieve a total of 3 hours credit in the Land Resource Management Planning area.

AGRI 544 GRASS SYSTEMATICS3 Credits
The main focus of the course is on identification of members of the Poaceae, or grass family. Construction and use of taxonomic keys will be central to the class. Students will work through grasses provided to identify them down to species. Upon completion of the class the students will be able to recognize common tribal and genera characteristics, and be able to key out unknown grasses.
Dual-listed: AGRI 444

AGRI 545 MAMMALOGY2 Credits
Systematic, life history, physiology, and behavior of mammals. Field trips may be required.
Cross-Listed: AGRI545/BIOL535
Prerequisites: Lower level biology course
Dual-listed: AGRI 445

AGRI 545L MAMMALOGY LABORATORY1 Credit
Laboratory experience.
Cross-Listed: AGRI545L/BIOL535L
Co-requisites: AGRI 545

AGRI 547 ANIMAL BREEDING AND GENETICS3 Credits
Range livestock animal breeding principles including heritabilities, correlations, mating systems, and the use of modern day genetic selection tools including expected progeny differences, indexes, and DNA applications. Course will include discussion of practical application of current genetic selection tools and principles.
Prerequisites: AGRI 132 or consent from the instructor

AGRI 551 HUMAN DIMENSIONS OF WILDLIFE MANAGEMENT3 Credits
Overviews the historic and current public viewpoints of wildlife and wildlife/human conflicts. Examines the policies which affect wildlife research and management and the impacts public opinion has on policy formation. Identifies the various stakeholders involved in natural resource management and policy, and incorporates the idea that wildlife management is people management.

AGRI 560 TOPICS IN AGRICULTURE3 Credits
Meets the needs of changing conditions in agriculture.
Notes: Topics may change from semester to semester; this course may be repeated for up to six (6) credit hours.

AGRI 600 INDEPENDENT STUDY OR RESEARCH1-3 Credits
Designed to permit individual students to participate in a progressively, more complex series of investigations and independent studies in agriculture, range management, natural resources, or wildlife management at the graduate level.
Add Consent: Instructor Consent
Requirements: Permission of instructor, Dean of Graduate Studies, and Academic Vice President.

AGRI 623 MANAGERIAL AGRICULTURAL POLICY3 Credits
An applicative and analytical examination of USDA agricultural, fiber, conservational, and rural economic policies. Analyses of applications of concepts to international trade, rural government and law, the structure of rural economic development, agribusiness financing, and tangential areas common of agribusiness in international and domestic markets.

AGRI 630 TOPICS IN AGRICULTURE/RANGE MANAGEMENT WILDLIFE1-3 Credits
Designed to meet special needs of individual students or groups, and is offered when demand can be demonstrated.

AGRI 655 SCHOLARLY PROJECT1-3 Credits
For students selecting Plan II, as listed under Program Requirements. Scholarly project pertaining to a field of specialization. Designed in consultation with student's graduate committee and includes an extensive paper summarizing the project.
Requirements: Must complete three (3) credit hours.

AGRI 660 THESIS RESEARCH1-6 Credits
For students selecting Plan I, as listed under Program Requirements. Original investigations in science, leading to the master's thesis.
Requirements: Must complete six (6) course credits; prior to registration, proposal must be approved by the student's committee and Dean of Graduate Studies.

AGRI 690 INTERNSHIP IN AGRICULTURE/RANGE MANAGEMENT/ WILDLIFE1-6 Credits
Provides practical work experience in an agency or organization related to agriculture, rangeland management, natural resources, or wildlife management.
Add Consent: Department Consent
Notes: Interested students should contact the Internship and Career and Academic Planning Services office to secure application materials; the amount of credit will be based on the availability of a suitable work position, the qualifications of the applicant and the work hours required; application should be made prior to the semester in which the internship will be started.
Requirements: Students must first complete a minimum of 18 credit hours in their degree program.