

Rangeland Resource Science

LOWER DIVISION

RRS 110. Rangeland Resources in a Modern Society (1). Role of the domestic ruminant and role of rangelands in support of increasing world populations. [CR/NC.]

UPPER DIVISION

RRS 306. Rangeland Resource Principles (3). Analysis of rangeland biophysical communities; management for sustainable human and environmental values; use by wild and domestic animals; historical and legal changes in rangeland management. [GE.]

RRS 311. Rangeland Field Experience (1). Field trips include some Saturdays and will substitute for scheduled lab time. Concurrent enrollment in RRS 306 recommended. Fee possible. [Rep.]

RRS 360. Rangeland Plant Communities (4). Delineation and synecology of important North American rangelands. Plant identification of important grasses, forbs, and shrubs. [Prereq: BOT 350 (C) or IA. Weekly: 3 lect, 1 lab.]

RRS 370. Rangeland Ecology Principles (3). Apply ecological principles for composition, distribution, successional patterns, and management of grassland, forested, and semidesert communities. [Prereq: RRS 306 or IA.]

RRS 380. Techniques in Rangeland Resources (2). Compare and apply analysis procedures used in vegetation sampling and monitoring. [Prereq: RRS 306; BIOM 109 or equivalent. Concurrent enrollment in RRS 390 recommended.]

RRS 390. Rangeland Analysis (2). Field demonstration of vegetation analysis procedures. Synthesize samples and interpret distinct ecological sites. Observe/evaluate structure and organization of vegetational hierarchy. [Prereq: RRS 306, RRS 360 (concurrent enrollment in RRS 380 is recommended. Multiple-day field trip.)

RRS 410. Introduction to Animal Nutrition (4). Digestive physiology, metabolism, energetics. Forages and supplemental feeds processing. Techniques of evaluation and application. [Prereq: CHEM 107, 328, and either BIOL 105 or ZOOL 110; or IA. Weekly: 2 hrs lect, 6 hrs lab.]

RRS 420. Introduction to Animal Science (3). Characteristics and adaptation of livestock breeds. Feeding/grazing experiments; market classes; livestock improvement. [Prereq: BIOL 105 or ZOOL 110, or IA. Weekly: two 1-hr lects, 3 hrs lab.]

RRS 430. Rangeland Development & Improvements (3). Treatments, developments, and structures to improve range condition and production. Ecological principles in manipulating ecosystems. [Prereq: RRS 306 or WLDF 301. Weekly: 2 hrs lect, 3 hrs lab/field trip.]

RRS 460. Rangeland & Ranch Planning (2). Conducted on a livestock ranching operation, resource management area, or federal rangeland allotment. Analyze economic, physical, floral, and faunal resources. Develop management plan. [Prereq: RRS 390, RRS 410 (or 420), and RRS 430. Field trips substitute for scheduled lab time.]

RRS 465 / FOR 465. Forestland Grazing (2). Livestock as a silvicultural tool to replace or supplement existing methods (mechanical or herbicidal) in managing plantations and second-growth forests. [Prereq: RRS 306 or FOR 116.]

RRS 470. Grazing Influences (2). Behavior of grazing animals; grazing strategies. Physiological and ecological responses of plants to defoliation. Interrelationships of the complex of soils, plants, animals. [Prereq: RRS 306, BOT 310.]

RRS 475. Advanced Study of Rangeland Plants (1). Identification and importance of range plants based on specialized morphological characteristics. HSU range-plant judging team selected from class. [CR/NC. Prereq: BOT 350, 354, and RRS 360, or IA.]

RRS 480. Selected Topics in Rangeland Resources (1-3). Lecture as appropriate. [Rep once with different topic.]

RRS 485. Rangeland Resources Seminar (1). Review current literature. [Prereq: senior standing. Rep.]

RRS 492. Senior Project (3). Independent research which will include fieldwork and completion of a scientific paper. [Prereq: senior standing, IA.]

RRS 499. Directed Study (1-3). Original research on assigned topics. May involve lab, field, or library work. [Prereq: RRS 306. Rep.]

GRADUATE

RRS 500. Advanced Study of Rangeland Resources (2). Range survey methodology, rangeland administration, coordinated resource management. [Prereq: grad status or IA.]

RRS 580. Advanced Topics in Rangeland Resources (1-2). Lecture as appropriate. [Rep once with different topic.]

RRS 685. Rangeland Resources Graduate Seminar (1). Important problems/changes in RRS. Review literature to propose solutions. [Rep.]

RRS 690. Thesis (1-4). [Rep.]

RRS 695. Research Problems in Rangeland Resources (1-4). Directed individual research on field or lab problems. [Prereq: grad standing. Rep.]

RRS 699. Directed Study (1-4). [Prereq: grad standing. Rep.]