### Rangeland Resource Science

#### UPPER DIVISION

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. [B-UD.]

**RRS 360. Wildland Plant Communities** (3).
Delineation and synecology of important North American rangelands. Plant identification of important grasses, forbs, and shrubs. [Prereq: BOT 350 (C) or IA. Weekly: 2 hrs lect, 3 hr lab.]

**RRS 370. Wildland Ecology Principles** (3).
Interplay of ecological principles with species composition, distribution, disturbance responses, and management of grassland, woodland, and shrubland communities. [Prereq: RRS 306 or IA.]

**RRS 375. Vegetation Analysis & Health** (3).
Vegetation and wildland health monitoring and analysis procedures. Observe and evaluate vegetation organization & structure. Interpret distinct ecological sites. Field demonstration and analytical work. [Prereq: RRS 306, and STAT 109 or equivalent.]

**RRS 420. Introduction to Animal Science** (3).
Characteristics, physiology, adaptation, and improvements of livestock breeds, animal welfare, feeding, grazing, and marketing. [Prereq: BIOL 105 or ZOOL 110; or IA. Weekly: two 1-hr lects, 3 hrs lab.]

**RRS 430. Wildland Restoration & Development** (3).
Treatments, developments, and structures to improve rangeland ecosystems, services, and function. Ecological principles in ecosystem management and restoration. [Prereq: RRS 306 or WLDF 301. Weekly: 2 hrs lect, 3 hrs lab/field trip.]

**RRS 460. Rangeland & Ranch Planning** (3).
Develop management plan for livestock operation, resource management area, or federal rangeland allotment. Analyze economic programs including conservation easements and incentives, physical and biotic resources. [Prereq: RRS 420 and RRS 430. Field trips substitute for scheduled lab time. Weekly: 1 hr lect, 6 hrs lab.]

**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, BOT 354, RRS 360; or IA. Rep.]

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

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

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**GRADUATE**

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