

Rangeland Resource Science


LOWER DIVISION

RRS 285 / SOIL 285. Rangeland Resource Seminar (1). Current topics in wildland resources (range & soils) assigned, presented, and discussed. Guest presentations from practicing professionals & scientists. Student oral & written presentations required. [Rep once.]

UPPER DIVISION


 **RRS 306. Wildland 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 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 WLD 301. Weekly: 2 hrs lect, 3 hrs lab/field trip.]

 **RRS 460. Rangeland & Ranch Planning** (2). 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.]

RRS 461. RRS Capstone (1). A wildland plant, plant community, or plant-soil project (individual or team) culminating in written and oral presentation. Demonstrate critical thinking skills applied to complex issues.

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.]

GRADUATE

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