

RANGELAND RESOURCE SCIENCE

Bachelor of Science degree with a major in Rangeland Resource Science

Minor in Rangeland Resource Science

For an option in Wildland Soil Science, see Wildland Soil Science

For information on the master's degree, see Natural Resources.

Department Chair

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The Program

Learn to manage rangeland ecosystems wisely. Study forage, timber, wildlife, recreation, watersheds, and their interrelationships.

Classroom instruction is enhanced by the university's plant and animal nutrition laboratories. Humboldt also has a range herbarium. Nearby privately owned ranches and federal lands offer excellent opportunities for field study.

Potential careers: range conservationist, biological technician, range manager, environmental specialist, agricultural inspector, lands specialist, soil conservationist or soil scientist, range consultant, natural resources specialist, watershed manager, or ecosystem restoration specialist.

Preparation

In high school take courses in biology, chemistry, and mathematics.

REQUIREMENTS FOR THE MAJOR

Complete all courses in the major with a C- or better:

Lower Division

BIOL 105	Principles of Biology
BIOM 109	Introductory Biometrics
BOT 105	General Botany
CHEM 107	Fundamentals of Chemistry
GEOL 109	General Geology
NRPI 105	Natural Resource Conservation

These first courses help meet lower division science GE requirements.

NRPI 215	Natural Resources & Recreation
SOIL 260	Introduction to Soil Science

Upper Division

BOT 310	General Plant Physiology
BOT 350	Plant Taxonomy
SOIL 360	Origin & Classification of Soils
SOIL 460	Forest & Range Soils Management
WLDF 301	Principles of Wildlife Management

Option

RRS 306	Rangeland Resource Principles
RRS 360	Rangeland Plant Communities
RRS 370	Rangeland Ecology Principles
RRS 380	Techniques in Rangeland Resources
RRS 390	Rangeland Analysis
RRS 430	Rangeland Development & Improvements
RRS 460	Rangeland & Ranch Planning
RRS 485	Rangeland Resources Seminar
RRS 492	Senior Project
RRS 410	Introduction to Animal Nutrition or
RRS 420	Introduction to Animal Science

Electives

Additional courses to bring total units to 128. Select from the following to satisfy university requirements and to attain the highest entry level in the civil service range conservationist rating procedure. Advisors may approve other courses.

BOT 330/330L	Plant Ecology/Lab
ECON 423	Natural Resource Economics
FISH 300	Introduction to Fishery Biology
FOR 116	The Forest Environment
FOR 230	Dendrology
FOR 231	Forest Ecology
FOR 315	Forest Management
FOR 374	Wilderness Area Management
FOR 422	Wildland Fire Use
GEOL 350	General Geomorphology
NRPI 210	Public Land Use Policies & Management

NRPI 277	Introduction to Remote Sensing
NRPI 425	Environmental Impact Assessment
RRS 465	Forestland Grazing
RRS 470	Grazing Influences
SOIL 462	Soil Fertility
SOIL 465	Soil Microbiology
SOIL 467	Soil Physics
SOIL 468	Introduction to Agroforestry
WLDF 311	Wildlife Techniques
WLDF 423	Wildlife Management (Nongame Wildlife)
WLDF 431	Ecology & Management of Upland Habitats for Wildlife
WSHD 310	Wildland Hydrology & Watershed Management I or
WSHD 315	Watershed Management
WSHD 410	Wildland Hydrology & Watershed Management II

REQUIREMENTS FOR THE MINOR

NRPI 105	Natural Resource Conservation
SOIL 260	Introduction to Soil Science
RRS 306	Rangeland Resource Principles
RRS 360	Rangeland Plant Communities
RRS 370	Rangeland Ecology Principles
RRS 380	Techniques in Rangeland Resources

