

**2011-13 Cal Poly Catalog****College of Agriculture, Food and Environmental Sciences****RANGELAND RESOURCES MINOR**

Animal Science

Bldg. 10, Room 141, 805 756-2419

**Coordinator: Marc R. Horney**

This interdisciplinary minor prepares students for careers which involve managing semi-arid grasslands, shrublands, and savannas, including wildlife habitats and livestock pasture. A main objective is to connect practical knowledge of rangeland ecosystems to management of herbivorous animals. Students learn methods and principles of assessing and monitoring the environmental and ecological health and productivity of rangelands. Courses give students a better understanding of the interactions of plants, animals, water, soil and landscape features in these ecosystems, and how to establish reasonable management goals and objectives. Associated careers include rangeland specialists with the federal government (BLM, NPS, NRCS, USFS) or private consultants, ecologists, wildlife biologists, wildland managers, ranch managers, and other natural resource management specialists. This minor offers sufficient courses to allow students to meet the basic educational requirements for California Certified Rangeland Manager.

Before being admitted to the program, students must have successfully completed the following courses:

BOT 121 *or* BIO 162, GE Area B1 MATH course, SS 121.

**Required courses.** At least one-half of the units must be 300-400 level. Select courses with advisor approval.

*Range Resource Area* ..... 7

ASCI 329 and AG 360

*Rangeland Animal Management Area.*

Select one course from: ..... 4

ASCI 223/311/339; BIO 427

*Rangeland Plant Physiology Area* ..... 4

BIO 435

*Rangeland Ecology Area.* Select one course from: 4

BOT 326; NR 306; PPSC 321

*Rangeland Measurements Area.*

Select one course from: ..... 4

BIO 419; CRSC 411; ERSC 202; SS 321/440

*Rangeland Policy/Planning Area.* 3

Select one course from:

ASCI 476; CRP 342/404/408; NR 404/408; SS 433

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