### Rangeland Resource Science BS with a Concentration in Wildland Soil Science

**Units for the major:** 86  
**Total units:** 120 units are required for a BS degree

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#### Freshman Year

**Fall (semester 1)**
- **Description:**
  - American Institutions [2]
  - LD GE A1 or A2 [1]
  - LD GE B: Life & Major
  - LD GE B: Math; Major [1]
  - LD GE E: Major

**Course**
- ENGL 104 (+ optional ENGL 110) or COMM 100
- BOT 105 General Botany
- STAT 109 Introductory Biostatistics
- SCI 100 Becoming a STEM Professional

**Units:** 3-4
**Semester Total:** 14-15

**Description**
- American Institutions [2]
- LD GE A1 or A2 [1]
- LD GE B: Life & Major
- LD GE B: Math; Major [1]
- LD GE E: Major

**Course**
- ENGL 104 (+ optional ENGL 110) or COMM 100
- CHEM 107 Fundamentals of Chemistry
- Major [Core]
- PHYX 106 College Physics [7]

**Units:** 3
**Semester Total:** 15

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#### Sophomore Year

**Fall (semester 3)**
- **Description:**
  - American Institutions [2]
  - LD GE C1 or C2 [4]
  - LD GE D; Major
  - Major [Core]
  - LD GE A3 [1]

**Course**
- HIST 110, HIST 111 or NAS 200
- GSP 101 & GSP 101L
- SOIL 260 Introduction to Soil Science

**Units:** 3
**Semester Total:** 15

**Spring (semester 4)**
- **Description:**
  - Major [Core]
  - GSP 216 OR GSP 270
  - Major [Core]
  - ESM 105 Natural Resource Conservation
  - UD GE B; Major [Core]

**Course**
- BIOL 105 Principles of Biology
- GSP 216 OR GSP 270
- ESM 105 Natural Resource Conservation
- RRS 306 Wildland Resource Principles

**Units:** 3
**Semester Total:** 15

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#### Junior Year

**Fall (semester 5)**
- **Description:**
  - Major [Core]
  - Major [Core]
  - American Institutions
  - Major [Concentration]
  - Major [Concentration]

**Course**
- SOIL 360 Origin & Classification or Soils
- RRS 375 Vegetation Analysis & Health
- FOR 359 CA & US Forest & Wildland Policy
- approved elective [6]
- approved elective [6]

**Units:** 3
**Semester Total:** 15

**Spring (semester 6)**
- **Description:**
  - UD GE C [4]
  - Major [Concentration]
  - Major [Concentration]
  - Major [Concentration]
  - Major [Concentration]

**Course**
- UD GE C [4]
- BOT 350 Plant Taxonomy
- RRS 360 Wildland Plant Communities
- RRS 370 Wildland Ecology Principles

**Units:** 3
**Semester Total:** 15

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#### Senior Year

**Fall (semester 7)**
- **Description:**
  - Major [Core]
  - Major [Core]
  - Major [Concentration]
  - Major [Concentration]

**Course**
- FOR 315
- BOT 310 General Plant Physiology
- approved elective [6]
- approved elective [6]

**Units:** 3
**Semester Total:** 13

**Spring (semester 8)**
- **Description:**
  - Major [Core]
  - Major [Core]
  - Major [Concentration]
  - Major [Concentration]

**Course**
- WSHD 310
- ESM 305 Environmental Conflict Resolution
- approved elective [6]
- approved elective [6]

**Units:** 4
**Semester Total:** 16

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**Notes:**
- A1=Written Communication; A2 = Oral Communication; A3 = Critical Thinking; C1 = Arts; C2 = Humanities;
- DCG = Diversity & Common Ground; GE = General Education; LD = Lower Division; UD = Upper Division; See page 2 for notes.

**Revised:** 5/13/20
Major: Rangeland Resource Science BS with a Concentration in Wildland Soil Science

Notes

[1] Requirement: Complete LD GE A1, A2, A3 & B: Math with C- or higher in each course; Complete by 60 units earned.

[2] One American Institution course will also count for LD GE D.


[4] Complete 2 DCG courses, (one must be domestic) with courses that also meet GE.


[6] Courses depend on emphasis area chosen (Botany, Earth Sciences, Ecological Restoration or Sustainable Agriculture, consult with degree advisor and/or 5-year course rotations. Many courses are offered in alternate semesters or years. Several emphases require 1-2 fewer units than shown on this MAP. Please refer to the program description in the university catalog for details.

[7] PHYX 106 has prerequisites of MATH 101T or MATH 102 or equivalent.