### Bachelor of Science in Natural Resources: Ecology, Management, and Restoration of Rangelands

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisite?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 151 OR CHEM 141 AND 143</td>
<td>4</td>
<td>MATH 112 or placement</td>
</tr>
<tr>
<td>ENGL 101 or 109H</td>
<td>3</td>
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<tr>
<td>RNR 200 Conservation of Natural Environments</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 112 College Algebra</td>
<td>3</td>
<td>placement test</td>
</tr>
<tr>
<td>Tier 1 Individuals and Societies</td>
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</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>16</td>
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<tr>
<td>Tier 1 Traditions and Cultures</td>
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<tr>
<td>Statistics: MATH 163 or 263, PSY 230 or SBS 200</td>
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<td>MATH 112 or placement</td>
</tr>
<tr>
<td>RNR 230R Field Botany Lecture</td>
<td>2</td>
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<tr>
<td>RNR 230L Field Botany lab</td>
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<tr>
<td>MCB 181R and L General Biology Lecture and Lab</td>
<td>4</td>
<td>MATH 112 or placement; 1st semester CHEM</td>
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<tr>
<td>Oral or Media Communication: COMM 113 or 119, ALC 422, JOUR 455, JOUR 472, SCI 401, SBE 202, RNR 495A</td>
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<td><strong>TOTAL</strong></td>
<td>16</td>
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<tr>
<td>Sophomore</td>
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<tr>
<td>RNR 316 Natural Resources – Ecology</td>
<td>3</td>
<td>ECOL 182R, ECOL 182L, RNR 230</td>
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<tr>
<td>Tier 2 Arts or Humanities Elect.</td>
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<tr>
<td>Technical Electives</td>
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<tr>
<td>Technical Skills: RNR 403, RNR 417, RNR 429, GEOG 330</td>
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<td><strong>TOTAL</strong></td>
<td>15</td>
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<tr>
<td>Junior</td>
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<tr>
<td>SNRE requirement</td>
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<tr>
<td>RAM 456a Rangeland Inventory and Monitoring</td>
<td>4</td>
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<td>Technical Electives</td>
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<tr>
<td>RAM 436a Grazing Ecology &amp; Management</td>
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<td><strong>TOTAL</strong></td>
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<tr>
<td>Senior</td>
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<tr>
<td>RAM 446 Management and Restoration of Wildland Vegetation</td>
<td>4</td>
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<tr>
<td>RAM 487 Rangeland Management Planning (odd years only)</td>
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<tr>
<td>Technical Electives</td>
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<tr>
<td>RNR 480 Natural Resources Policy and Law</td>
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<td>RNR 200</td>
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<td><strong>TOTAL</strong></td>
<td>15</td>
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</table>

Diversity Emphasis: One general education course must have the non-Western Civilization, Gender, Race, Class, Ethnicity designation
2nd semester language proficiency required—not included in this plan

Catalog Year 2018-19
POTENTIAL CAREER TRACKS

**Restoration Ecologist/ Preserve Manager**
ECOL 406R	AREC 350
ECOL 406L
4 units from the following:
PLS 360	PLS 312
3 units from the following:
RNR 438	WSM 408
6-8 units from the following:
ENVS 461	WFSC 444
RNR 403

**Peace Corps/ International Conservation & Development**
At least 2 semesters of a second language, and 4 recommended
1 course from the following:
ANTH 202	GEOG 210
GEOG 373
1 course from the following:
ANTH 331	GEOG 380
1 course from the following:
AGTM 422	SOC 333
PSYC 360

**Additional Career Tracks:**
- Tribal Range Management Specialist
- Soil Science GS-5, Office of Personnel Management
- Cooperative Extension
- OPM Botanist GS-5
- Environmental Law and Policy
- Environmental Assessment
- Wildlife Biologist GS-5 Office of Personnel Management

For further details on any of these potential career tracks, see your faculty advisor.

**Range Management Specialist GS-5 Office of Personnel Management & Society for Range Management Certification**
PLS 360	ENVS 431
ACBS 477
9 units from the following:
ECOL 406R
RNR 438	WFSC 455R
WFSC 441	WSM 460
WFSC 444	WSM 462
WSM 465	WSM 468

**Strongly Recommended:**
RNR 403 or RNR 417

**Environmental Communication, Education, and Interpretation**
6 units from the following:
AGTM 422	JOUR 413
AED 438	SOC 333
JOUR 455	PSYC 329
JOUR 472	PSYC 374

6 units from the following:
ANTH 202	ANTH 409
ANTH 307	ECOL 406R
ANTH 331	WFSC 444
WFSC 447

6 units from the following:
AREC 476	GEOG 210
GEOG 373	GEOG 380
GEOG 459

**Research in Rangeland Science & Management**
ENG 414	RAM 499
RNR 492
3 units from the following:
PHIL 202	PHIL 421
PHIL 305
9 units from the following:
MATH 113	ENVS 431
PHYS 102	CHEM 241a
GEOS 251	CHEM 243a

**Ranch Management**
PLS 360	ACBS 431
ACBS 336A or ACBS 477
9 units from the following:
ECOL 406L	WFSC 455L
ECOL 406R	WFSC 455R
RNR 438	WSM 460A
WFSC 441	WSM 462
WFSC 444	WSM 468
WFSC 447
3 units from the following:
ACBS 213	ACBS 477
ACBS 315R	ACBS 480B
ACBS 480B	ACBS 336A
ACBS 336A	AREC 217
3 units from the following:
GEOG 483	RNR 422
RNR 403	ENVS 461
RNR 417	WSM 330

**Ecologist Series GS-5 Office of Personnel Management**
6 units from the following:
PHYS 102	HWR 250
ATMO 171	GEOS 251
6 units from the following:
ECOL 183	WFSC 441
ECOL 320	WFSC 444
ECOL 380	ECOL 472
ECOL 406R	ECOL 482
ECOL 438	ECOL 485

**Strongly Recommended:**
RNR 403 or RNR 417

**Natural Resources Planning**
1 unit from the following:
AREC 217	AREC 373
AREC 350	AREC 476
3 units from the following:
ATMO 171
PLG 301
3 units from the following:
GEOG 371	GEOG 459
GEOG 401a	GEOG 461
GEOG 401b	GEOG 465

**Strongly Recommended:**
ENVS 453
RNR 403 or RNR 417

**Soil Conservation GS-5 Office of Personnel Management**
ENVS 431	PLS 312
ENVS 461	PLS 360
Strongly Recommended:
CHEM 241	CHEM 243
RNR 403 or RNR 417