

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

		FALL				SPRING	
Course Title		Units	Prerequisite?	Course Title		Units	Prerequisite?
Freshman	CHEM 151	4	MATH 112 or placement	CHEM 152	4	CHEM 151	
	ENGL 101 or 109H	3		ENGL 102	3		
	RNR 200 Conservation of Natural Environments	3		ECOL 182R and L General Biology Lecture and Lab	4		
	MATH 112 College Algebra	3	placement test	Tier 1 Individuals and Societies	3		
	Free Electives	2					
	TOTAL	15		TOTAL	14		
Sophomore	Tier 1 Traditions and Cultures	3		ENVS 200, 201: Soil Science lab and lecture	4	CHEM 151	
	Statistics: MATH 163 or 263, PSY 230 or SBS 200	3	MATH 112 or placement	Tier 1 Traditions and Cultures	3		
	RNR 230R Field Botany lecture	2		Tier 1 Individuals and Societies	3		
	RNR 230L Field Botany lab	1		Tier 2 Ind & Soc – ECON 200 (Economics)	3		
	MCB 181R and L General Biology Lecture and Lab	4	MATH 112 or placement; CHEM 151	RNR 384 Natural Resources Management Practices	3		
	Oral or Media Communication: COMM 113, COMM 119, AGTM 422, JOUR 455, JOUR 472, SCI 401, SBE 202	3					
	TOTAL	16		TOTAL	16		
Junior	RNR 316 Natural Resources – Ecology	3	ECOL 182R, ECOL 182L, RNR 230	RNR 321 Ecological Surveys and Sampling	3	MATH 163 or 263	
	Tier 2 Arts or Humanities Elect.	3		RAM 382 Rangeland Plant Communities	3	RNR 230R and RNR 230L	
	Technical Electives	6		Technical Writing: ENGL 308, 313, 340, or 414, ENVS 408 or 415	3		
	Technical Skills: RNR 403, RNR 417, RNR 429, GEOG 330	3		Technical Electives	6		
		TOTAL	15		TOTAL	15	
Senior	SNRE requirement	1		RAM 446 Management and Restoration of Wildland Vegetation	4		
	RAM 456a Rangeland Inventory and Monitoring	4		RAM 487 Rangeland Management Planning (odd years only)	2		
	Technical Electives	7		Technical Electives	6		
	RAM 436a Grazing Ecology & Management	2		RNR 480 Natural Resources Policy and Law	3	RNR 200	
		TOTAL	15		TOTAL	15	

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

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

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&L
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

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 RNR 417

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

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 AREC 217

3 units from the following:
GEOG 483 RNR 422
RNR 403 ENVS 461
RNR 417 WSM 330

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

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

Management

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

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