

Bachelor of Science in Natural Resources: Conservation Biology

		FALL		SPRING		
	Course Title	Units	Prerequisite?	Course Title	Units	Prerequisite?
Freshman	Tier 1 Nat Sci – CHEM 151	4	MATH 112 or placement	Tier 1 Nat Sci – CHEM 152	4	CHEM 151
	ENGL 101 or 109H	3		ENGL 102	3	
	Tier 1 Traditions and Cultures: RNR 160D1	3		ECOL 182R and L General Biology Lecture and Lab	4	
	RNR 230R Field Botany lecture	2		MATH 113, 122A/B, or 125 (Calculus)	3-5	MATH 112 or placement test
	RNR 230L Field Botany lab	1		Tier 1 Individuals and Societies	3	
	TOTAL	13		TOTAL	17/19	
Sophomore	Tier 2 Ind & Soc – ECON 201a or ECON 200	3		Skills course (see list)	3/4	
	RNR 316 Natural Resources Ecology	3	ECOL 182R and L, RNR 230R	Tier 1 Traditions and Cultures	3	
	MATH 163 or 263 Statistics	3	MATH 112 or placement	Tier 1 Individuals and Societies	3	
	RNR 200 Conservation of Natural Environments	3		ENGL 308, 313 or 340, ENVS 408 or 415, AGTM 422, SCI 401	3	
	MCB 181R and L General Biology Lecture and Lab	4	MATH 112 or placement; CHEM 151	RNR 384 Natural Resources Management Practices	3	
	TOTAL	16		TOTAL	15/16	
Junior	Tier 2 Arts or Humanities Elect.	3		RNR 321 Ecological Surveys and Sampling	3	MATH 163 or 263
	Natural Resources Management course (see list)	4	RNR 316 recommended	Environment or Skills course (see list)	3/4	
	Organismal Biology Course (see list)	4		PLS 312 or ECOL 320 Genetics	4	MCB 181R and L; CHEM 151 and 152
	ECOL 406R Conservation Biology	3		Organismal Biology Course (see list)	4	
		TOTAL	14		TOTAL	14/15
Senior	Social Dimensions course (see list)	3		Capstone Experience or Technical Elective	3	
	Free Electives	7		Skills course (see list)	3	
	Technical Electives	6		Technical Electives	6	
		TOTAL	16	RNR 480 Natural Resources Policy and Law	3	RNR 200
				TOTAL	15	
Diversity Emphasis: One general education course must have the non-Western Civilization, Gender, Race, Class, Ethnicity designation						
2nd semester language proficiency required						
Revised 11-4-15						

CONSERVATION BIOLOGY COURSE SELECTIONS

Natural Resource Management	Social Dimensions
RA M 446 -- Vegetation Management--Wildlands (4)	RNR 351—Ecosystem Services: Science and Management (3)
RA M 487 -- Rangeland Management Planning (2)	RNR 448 Conservation Planning and Recreation (3)
RNRN 441A – Natural Resources Management in Native American Communities (3)	RNR 472—Environmental Land Use Planning (3)
WFSC 444 – Wildlife Management (4)	AREC 217 -- Resources and Environmental Econ (3)
WFSC 445 – Population Ecology (4)	AIS 418 -- Southwest Land and Society (3)
WFSC 455R – Fishery Management (3)	ANTH 307 -- Ecological Anthropology (3)
WS M 462 – Watershed Management (3)	ANTH 469 -- Ethnobotany (3)
	HIST 355 -- U.S. Environmental History (3)
	PA 481 -- Environmental Policy (3)
Skills courses	
COMM 119 – Public Speaking (3)	Environment
RA M 456A – Rangeland Inventory & Monitoring (4)	RNR 458 -- Ecosystem Ecology (3)
RNR 403 -- Applications of GIS (3)	RNR 427 -- Earth's Changing Carbon Cycle (3)
RNR 417 – GIS for Natural Resources (3)	WS M 460 -- Watershed Hydrology (3)
RNR 419 -- Cartographic Modeling for Natural Resources (3)	WS M 468 -- Wildland Water Quality (3)
RNR 420 -- Advanced GIS (3)	GEOG 430 -- The Climate System (3)
RNR 422 -- Resource Mapping (3)	GEOS 478 -- Global Change (3)
RNR 450—Conflict and Collaboration in Community and Environmental Decision Making (3)	SWES 200 -- Soils (3)
RNR 498 -- Preceptor	SWES 201 -- Soils Laboratory (1)
ECOL 401 -- Teaching Biology (2)	
ECOL 450 -- Marine Discovery (4)	
ECOL 464—Sonoran Desert Discovery (3)	Other Electives
ENTO 407—Insect Discovery (3)	RAM 436A—Grazing Ecology and Management (2)
GEOG 330 -- Introduction to Remote Sensing (3)	RNR 355 Introduction to Wildland Fire (3)
AGTM 422 – Communicating Knowledge in Agriculture and the Life Sciences (3)	RNR 438 -- Fire Ecology (3)
ENVS 408 – Scientific Writing (3)	WFSC 441 -- Limnology (4)
	WFSC 430—Conservation Genetics (3)
	AREC 373 – Environmental Economics (3)
	ECOL 335—Evolution (3)
	ECOL 426 -- Population Genetics (3)
	GEOG 438—Biogeography (3)
	GEOS 476A -- Analysis of Biol Diversification (3)
	AREC 476 -- Environmental Law and Economics (3)
	SWES 461 -- Soil and Water Conservation (3)
	ACBS 403R -- Biology of Animal Parasites (3)
	ACBS 449 -- Diseases of Wildlife
	WFSC 447- Wildlife Conservation Behavior
Organismal Biology	
RA M 382 -- Rangeland Plant Communities (3)	
ECOL 472 -- Systematic Botany (4)	
ECOL 475 -- Freshwater and Marine Algae (4)	
ECOL 482 -- Ichthyology (4)	
ECOL 483 -- Herpetology (4)	
ECOL 484 -- Ornithology (4)	
ECOL 485 -- Mammalogy (4)	
ENTO 405 -- Aquatic Entomology (4)	
ENTO 415R -- Insect Biology (3)	
MIC 329A Microbial Diversity (3)	