

Bachelor of Science in Natural Resources: Conservation Biology

	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	
	Tier 1 Traditions and Cultures	3		ECOL 182R and L General Biology Lecture and Lab	4	
	RNR 200 Conservation of Natural Environments	3		Calculus: MATH 113, 122A/B, or 125 (Calculus)	3-5	MATH 112 or placement test
		Tier 1 Individuals and Societies	3			
	TOTAL	13		TOTAL	17/19	
Sophomore	Tier 2 Ind & Soc – ECON 200	3		Tier 2 Arts or Humanities	3	
	RNR 316 Natural Resources Ecology	3	ECOL 182R and L, RNR 230R	Tier 1 Traditions and Cultures	3	
	Statistics: MATH 163 or 263, or PSY 230, or SBS 200	3	MATH 112 or placement	Tier 1 Individuals and Societies	3	
	RNR 230R and 230L Field Botany	3		Technical Writing: ENGL 308, 313, 340, or 414, ENVS 408 or 415	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	
Junior	Technical Skills: RNR 403, 417, 429, GEOG 330, RAM 456A, 446	3/4		RNR 321 Ecological Surveys and Sampling	3	statistics
	Natural Resources Management course (see list)	4	RNR 316 recommended	ECOL 406R: Conservation Biology	3	
	Organismal Biology Course (see list)	4		PLS 312 or ECOL 320 Genetics	4	MCB 181R and L; CHEM 151 and 152
	Environment Elective	3/4		Organismal Biology Course (see list)	4	
		TOTAL	14		TOTAL	14
Senior	Social Dimensions course (see list)	3		Capstone Experience	3	
	SNRE Requirement	1		Oral or Media Communication: AGTM 422, COMM 113, COMM 119, JOUR 455, JOUR 472, SBE 202, SCI 401	3	
	Technical Electives	12		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

CONSERVATION BIOLOGY COURSE SELECTIONS

Natural Resource Management

RA M 446 –Management and Restoration of Wildland Vegetation (4)
RNR 441A – Nat Res Management in Native American Communities (3)
WFSC 444 – Wildlife Management (4)
WFSC 445 – Population Ecology (3)
WFSC 455R and L – Fishery Management (4)
WS M 462 – Watershed Management (4)

Organismal Biology

RAM 382 -- Rangeland Plant Communities
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 and L -- Insect Biology (4)
MIC 329A Microbial Diversity (3)

Social Dimensions

RNR 440 - Climate Change Adaptation
RNR 448 Conservation Planning and Recreation (3)
RNR 472—Environmental Land Use Planning (3)
AREC 217 -- Resources and Environmental Econ (3)
GEOG 404 – The Politics of Nature
ANTH 307 -- Ecological Anthropology (3)
ANTH 469 -- Ethnobotany (3)
HIST 355 -- U.S. Environmental History (3)
PA 481 -- Environmental Policy (3)

Environment

GEOS 251- Geology (4)
RNR 458 -- Ecosystem Ecology (3)
WS M 460A -- Watershed Hydrology (4)
WS M 468 -- Wildland Water Quality (3)
GEOG 430 -- The Climate System (3)
GEOS 478 -- Global Change (3)
SWES 200 -- Soils (3)
SWES 201 -- Soils Laboratory (1)

Marine Sciences Minor courses

ECOL 496O- Galapagos Marine Ecology
GEOS 212 Introduction to Oceanography
ENVS 475 - Freshwater and Marine Algae
ECOL 404R and L Biology of the Oceans (Fall)
ECOL 412A and B Ocean Sciences
ECOL 360 Marine Ecology and Conservation
ECOL 450 Marine Discovery

Other Electives

ECOL 401 -- Teaching Biology (2)
ECOL 450 -- Marine Discovery (4)
ECOL 464—Sonoran Desert Discovery (3)
ENTO 407—Insect Discovery (3)
RNR 495A –Study Abroad (Namibia or Ecuador or Australia)
RAM 436A—Grazing Ecology and Management (2)
RNR 355 -- Introduction to Wildland Fire (3)
RNR 438 -- Fire Ecology (3)
WFSC 471 – Stream Ecology (3)
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
WFSC 385 – Zoo and Aquarium Conservation
RNR 495A – Communication Skills in Conservation

Consider an Undergraduate Certificate in:

- Rangeland Management
- Geographic Information Systems
- Zoo and Aquarium Conservation
- International Environmental Conservation