BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

The Bachelor of Science in Environmental Science encompasses the study of natural environmental systems and the interaction of humans with these systems. It includes a strong foundation in the basic sciences, requiring core content in mathematics, physics, chemistry, biology, Earth sciences, and environmental policy. Upper-level coursework builds lab, field, communication, and computational skills. Students will be encouraged to create a focused pathway of electives that matches their interests and career goals. This degree program will prepare students for careers in environmental consulting, conservation, environmental sustainability, and environmental education. #It will also provide a strong base for students interested in pursuing graduate programs and careers in environmental policy, environmental law, medicine, and other master's and Ph.D. programs in environmentally related disciplines.

Code	Title	Credit Hours
Wellness		
APPH 1040	Scientific Foundations of Health	2
or APPH 10	The Science of Physical Activity and Health	
or APPH 10	Flourishing: Strategies for Well-being and Resilience	
Core A - Essential Skills		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
MATH 1552	Integral Calculus	4
Core B - Institutional Options		
CS 1301	Introduction to Computing	3
or CS 1315	Introduction to Media Computation	
or CS 1371	Computing for Engineers	
Core C - Humanities [1]		
Any HUM		6
Core D - Science, Math, & Technology		
PHYS 2211	Introductory Physics I	4
CHEM 1211K	Chemical Principles I	4
MATH 1551	Differential Calculus	2
MATH 1553	Introduction to Linear Algebra	2
Core E - Social Sciences [1]		
Select one of the following:		3
INTA 1200	American Government in Comparative Perspective	
POL 1101	Government of the United States	
Any SS		9
Core F - Courses Related to Major		
CHEM 1212K	Chemical Principles II	4
or CHEM 13	Survey of Organic Chemistry for Engineers	
EAS 1600	Introduction to Environmental Science	4
EAS 2600	Earth Processes	4
Must complete one:		4
BIOS 1207 & 1207L	Biological Principles for Majors and Biological Principles Project Laboratory	
BIOS 1107 & 1107L	Biological Principles and Biological Principles Laboratory	
Must complete one:		4
BIOS 2300 & BIOS 230	Ecology and Ecology Laboratory	
BIOS 2310 & BIOS 231	Problems in Ecology and Problems in Ecology Laboratory	
Major Requirements		
EAS 4480	Environmental Data Analysis	3
PUBP 4530	Introduction to Geographic Information Systems	3
or CP 4510	Fundamentals of Geographic Information Systems	
or EAS 4380	Land Remote Sensing	
PUBP 3315	Environmental Policy and Politics	3
EAS 4410	Climate and Global Change	3
EAS 4420	Environmental Field Methods	4
Must complete one:		4
BIOS 3380 & BIOS 338	Microbiology and Microbiology Lab	
EAS 4220 & EAS 4221	Environmental Geochemistry and Environmental Geochemistry Lab	
Environmental Science Electives		**9**
BIOS 3100	Ecology & Evolution: An Australian Perspective	
BIOS 3380	Microbiology	
BIOS 3600	Evolutionary Biology	
BIOS 4221	Biological Oceanography	
BIOS 4340	Medical Microbiology	
BIOS 4401	Experimental Design and Statistical Methods in Biological Sciences	
BIOS 4417	Marine Ecology	
BIOS 4418	Microbial Physiology	
BIOS 4428	Population Dynamics	
BIOS 4515	Community Ecology	
BIOS 4607	Molecular Biology of Microbes: Disease, Nature, and Biotechnology	
BIOS 4620	Aquatic Chemical Ecology	
BIOS 4651	Bioethics	
BIOS 4690	Independent Research Project	
BIOS 4699	Undergraduate Research	
BIOS 4803	Special Topics (Conservation Biology)	
BIOS 4803	Special Topics (Biology of Terrestrial Vertebrates)	
BIOS 4803	Special Topics (Ornithology)	
BIOS 4813	Special Topics (Biodiversity on a Changing Planet)	
CEE 4300	Environmental Engineering Systems	
CEE 4330	Air Pollution Engineering	
CEE 4350	Environmental Technology in the Developing World	
CEE 4360	Energy and Resource Recovery	
CHEM 3700	The Science of Alternative Energy	
CHEM 4740	Atmospheric Chemistry	
CP 4052	Sustainable Cities Studio	
CP 4105	Land Conservation	

	CP 4190	Introduction to Climate Change Planning
	CP 4210	Environmental Planning and Impact Assessment
	EAS 3110	Energy, Environment, and Society
	EAS 3603	Thermodynamics of Earth Systems
	EAS 3803	Special Topics (Geologic History)
	EAS 4205	Geomorphology
	EAS 4220	Environmental Geochemistry
	EAS 4221	Environmental Geochemistry Lab
	EAS 4224	Mineral Surface Geochemistry
	EAS 4300	Introduction to Physical and Chemical Oceanography
	EAS 4305	Physical and Chemical Oceanography
	EAS 4350	Paleoclimatology and Paleoceanography
	EAS 4375	Earth and Planetary Materials
	EAS 4380	Land Remote Sensing
	EAS 4430	Remote Sensing and Data Analysis
	EAS 4515	Fluids in the Earth's Crust I
	EAS 4525	Weather Risk and Catastrophe Modeling
	EAS 4602	Biogeochemical Cycles
	EAS 4699	Undergraduate Research
	EAS 4740	Atmospheric Chemistry Laboratory
	EAS 4795	Groundwater Hydrology
	EAS 4803	Special Topics (Glacier and Ice Sheet Dynamics)
	EAS 4803	Special Topics (Basics of Geoengineering)
	EAS 4803	Special Topics (Sea-level Rise and Coastal Engineering)
	EAS 4813	Special Topics (Extreme Atlanta: Climate Change in Urban Spaces)
	ECON 3300	Economics of International Energy Markets
	ECON 4440	Economics of Natural Resources and the Environment
	HTS 3005	American Environmental History
	HTS 3081	Technology and the Environment
	INTA 3040	Energy, Environment, and Policy
	INTA 4040	Environmental Politics
	PHIL 4176	Environmental Ethics
	PUBP 3320	Climate Policy
	PUBP 3350	Energy Policy
	PUBP 3600	Sustainability, Technology, and Policy
	PUBP 4440	Science, Technology, and Regulation
	PUBP 4530	Introduction to Geographic Information Systems
	PUBP 4620	Environmental Law
Upper Division Electives [2]		**7**
Free Electives		**21**
Total Credit Hours		**122**

Students must complete a minimum of 39-hours of 3000/4000-level coursework.

[1] Pass/Fail allowed only for Humanities, Social Sciences, and Free electives

[2] 3000/4000-level courses in any field chosen by the student