

UNDERGRADUATE EMBEDDED CERTIFICATE IN ECOLOGY, EVOLUTION, AND CONSERVATION BIOLOGY

EAS 4350 Paleoclimatology and Paleoceanography

EAS 4410 Climate and Global Change

EAS 4420 Environmental Field Methods

EAS 4602 Biogeochemical Cycles

Biology majors are eligible to complete certificates within Biology electives and free electives.

All certificates are subject to the following requirements:

- Minimum 12 credits from the list of approved courses for each certificate
- Minimum 9 credits BIOS coursework
- Minimum 9 credits of 3xxx or higher coursework
- Maximum 6 credits of Special Topics
- Maximum 3 credits Transfer Credit
- Courses may not be double-counted toward more than one certificate or minor

Students declare a certificate, select and complete at least 12 credits that correspond to the desired certificate from the list below. Complete Certificate Applications must be submitted at least two weeks prior to the end of your graduating semester. The Certificate Application will be available on the Biology Majors Portal site in Canvas.

Code	Title	Credit Hours
Select 12 credits (at least 9 credits must be Biological Sciences (BIOS):		12
BIOS 3100	Ecology & Evolution: An Australian Perspective	
BIOS 3380	Microbiology	
BIOS 3381	Microbiology Lab	
BIOS 4221	Biological Oceanography	
BIOS 4225	Molecular Evolution	
BIOS 4340	Medical Microbiology	
BIOS 4410	Microbial Ecology	
BIOS 4417	Marine Ecology	
BIOS 4418	Microbial Physiology	
BIOS 4428	Population Dynamics	
BIOS 4471	Behavioral Biology	
BIOS 4510	Epigenetics, Stem Cells, and Development	
BIOS 4515	Community Ecology	
BIOS 4550	Origin of complex life: from cells to societies	
BIOS 4620	Aquatic Chemical Ecology	
BIOS 4746	Signaling Molecules	
BIOS 4803	Special Topics (Conservation Biology)	
BIOS 4813	Special Topics (Biodiversity on a Changing Planet)	
BIOS 4813	Special Topics (Biology of Terrestrial Vertebrates)	
EAS 4300	Introduction to Physical and Chemical Oceanography	
EAS 4305	Physical and Chemical Oceanography	