21-24

PALEOBIOLOGY MINOR (GEOL)

Program Director: John Merck, Ph.D.

The minor in Paleobiology will provide students with a broad understanding of the application of the methods of biology and geology to the study of the history of life, and develop students' appreciation of how issues in the study of paleobiology connect with larger trends in those sciences. It is intended for all students with an interest in the study of the history of life, be it professional or avocational.

REQUIREMENTS

Depending on optional course(s) taken, a total of 21-24 credits are required (see prerequisites (p. 1)). All courses presented for the minor must be passed with a grade of C- or better.

Course	Title Ci	edits
Fundamental Cou	irses	
BSCI160 & BSCI161	Principles of Ecology and Evolution and Principles of Ecology and Evolution Lab	4
One of the followi	ng:	4
GEOL100	Physical Geology	
& GEOL110	and Physical Geology Laboratory	
GEOL120	Environmental Geology	
& GEOL110	and Physical Geology Laboratory	
•	History or Organismal Biology	
One of the followi	ng:	3-4
GEOL102	Historical Geology	
GEOL104	Dinosaurs: A Natural History	
GEOL204	Dinosaurs, Early Humans, Ancestors, and Evolution; The Fossil Record of Vanished Worlds of the Prehistoric Past	of
BSCI207	Principles of Biology III - Organismal Biology	
BSCI222	Principles of Genetics	
Upper-Level Pale	obiology	
One of the followi	ing:	4
BSCI333/ GEOL331	Principles of Paleontology	
BSCl392 & BSCl393	Biology of Extinct Animals and Biology of Extinct Animals Laboratory	
Electives		
Two courses (one the following:	from Biology and one from Geology) selected fron	n 6-8
BSCI333/ GEOL331	Principles of Paleontology (if not taken to satisfy the requirement above)	
BSCI334	Mammalogy	
BSCI361	Principles of Ecology	
BSCI363	The Biology of Conservation and Extinction	
BSCl392 & BSCl393	Biology of Extinct Animals and Biology of Extinct Animals Laboratory (if not taken to satisfy the requirement above)	
BSCI370	Principles of Evolution	
BSCI399	Biology Department Research ¹	
GEOL342	Sedimentation and Stratigraphy	
GEOL431	Vertebrate Paleobiology	

GEOL436	Principles of Biogeochemistry
GEOL437	Global Climate Change: Past and Present
GEOL499	Special Problems in Geology
Or another appropriate biology or geology course approved in advance by the Entomology or Geology advisor	

The Paleobiology Minor requires 3 cumulative credits of BSCI399 to count as elective. Research topic must be approved by GEOL or ENTM advisor.

Prerequisites

Total Credits

Required Courses

The following required courses have prerequisites (as indicated in the course description):

- · BSCI207 Principles of Biology III Organismal Biology
- BSCI222 Principles of Genetics
- · GEOL102 Historical Geology
- BSCI333 Principles of Paleontology or GEOL331 (cross-listed)
- · BSCI392 Biology of Extinct Animals and BSCI393 (lab)

Of these, only BSCI207 and BSCI222 have supporting prerequisites not already required for the minor.

Optional Courses

The following optional courses have prerequisites (as indicated in the course description):

- BSCI333 Principles of Paleontology or GEOL331 (cross-listed)
- · BSCI334 Mammalogy
- · BSCI361 Principles of Ecology
- BSCI363 The Biology of Conservation and Extinction
- BSCI392 Biology of Extinct Animals and BSCI393 (lab)
- BSCI370 Principles of Evolution
- · GEOL342 Sedimentation and Stratigraphy
- · GEOL431 Vertebrate Paleobiology
- · GEOL436 Principles of Biogeochemistry
- GEOL437 Global Climate Change: Past and Present

Of these, only BSCl334, BSCl361, GEOL342, GEOL436, and GEOL437 have supporting prerequisites not already required for the minor. $\frac{1}{2} \frac{1}{2} \frac{$