B.S. in Geology: Paleontology Specialization

Effective September 2009

Paleontology is the study of ancient creatures and environments through the use of fossils and other geological evidence. Students electing paleontology will find opportunities in research, education, museum conservation and curation, and graduate school.

	FRESHMAN YEAR	
	First Semester	
__BIOL 151	General Biology I	(3-0) 3
__CHEM 112	General Chemistry	(3-0) 3
__CHEM 112L	Exper. Gen. Chemistry I	(0-1) 1
__ENGL 101	Composition I	(3-0) 3
__GEOL 201	Physical Geology	(3-0) 3
__GEOL 201L	Physical Geology Lab	(0-1) 1
__IS 110	Explorations	2
		16
	Second Semester	
__CHEM 114	General Chemistry II	(3-0) 3
__CHEM 114L	Exper. Gen. Chemistry II	(0-1) 1
__BIOL 153	General Biology II	(3-0) 3
__MATH 123	Calculus I	(4-0) 4
__Gen Ed Social	Science or Humanities Electives[1]	(3-0) 6
		17
	SOPHOMORE YEAR	
	First Semester	
__GEOL 331	Stratig. and Sedimentation	(2-1) 3
__BIOL 121	Basic Anatomy	(3-0) 3
__BIOL 121L	Basic Anatomy Lab	(0-1) 1
__MATH 125	Calculus II	(4-0) 4
__PHYS 211	University Physics I	(3-0) 3
__Gen Ed Social	Science or Humanities Electives[1]	(3-0) 3
		17
	Second Semester	
__ENGL 279	Technical Communications I[1]	(3-0) 3
__GEOL 212	**Mineral. and Crystallog.**	**(2-1) 3**
__GEOL 276	Dinosaurs & Extinct Vert	(3-0) 3
__GEOE 211	Erth Sys. Eng. Anal.	(1-1) 2
__Gen Ed Social	Science or Humanities Electives[1]	(3-0) 3
__PE	Physical Education	1
		15
	JUNIOR YEAR	
	First Semester	
__ENGL 289	Technical Communications II[1]	(3-0) 3
__GEOL 341	**Elementary Petrology**	**(2-1) 3**
__GEOL 461	Invert. Paleo**	(2-1) 3
__MATH 281	Intro. to Statistics	(3-0) 3
__GEOL 321	Search for Our Past	(3-0) 3
__	Humanities/Social Science Elective	1
		16
	Second Semester	
__GEOE 322	**Structural Geology**	**(2-1) 3**
__GEOL 403	Regional Field Geology	(0-1) 1
__GEOL 472	Museum Cons. Cur.**	(1-2) 3
__GEOL 316	Intro. to GIS	(2-1) 3
__	Geology electives[3]	3
__PE	Physical Education	1
		14
	Summer	
__GEOL 410	**Field Geology**	**(0-6) 6**
__ GEOL 371	Field Paleontology	(0-2) 2
		8
	SENIOR YEAR	
	First Semester	
__GEOL 464	Senior Research I	1
__GEOL 473	Museum Techniques & Exhibits**	(2-1) 3
__GEOL 351	Earth Resources & Env	(3-0) 3
__BIOL 311	Principles of Ecology	(3-0) 3
__	Humanities/Social Science electives	3
		13
	Second Semester	
__GEOL 465	Senior Research II[2]	3
__	Geology Electives[3]	3
__	Free electives	6
		12

128 semester credits are required.
**Course offered alternate years.
Critical sequence, must be taken in the specified semester.

Curriculum Notes

[1] Students must complete 27 credits of the general education core in their first 64 credit hours, including 6 credits of science, 3 cr math, 6 cr English/Technical Communication, 6 cr humanities, and 6 cr social science. ENGL 289 yields an addition 3 general education credits, for a total of 30.

[2] Under exceptional circumstances, a student may petition the department chair to substitute geology electives for senior research.

[3] A Geology elective is any class with a GEOL or GEOE prefix.

Additional course work in mathematics and statistics is encouraged, especially for students planning to go to graduate school.

Suggested electives

This list is not intended to be restrictive. Many other courses are available.

ATM 406 Global Environmental Change
BIOL 330 Environmental Science
GEOE 451 Economic Geology
GEOL 417 Geospatial Databases
GEOL 420 Introduction to Remote Sensing
BIOL 371 Genetics
CHEM 316 Fundamentals of Organic Chemistry
GEOL 419 Advanced Geospatial Analysis

List GE Hum Electives (6 cr)	**List Hum/SS Electives (4 cr)**	**List Free Electives (6 cr)**
_____ ( )	_____ ( )	_____ ( )
_____ ( )	_____ ( )	_____ ( )
List GE Soc Sci Electives (6 cr)	**List Geology Electives (6 cr)**	_____ ( )
_____ ( )	_____ ( )	_____ ( )
_____ ( )	_____ ( )	_____ ( )

For more information, contact the Geology Program Coordinator, Dr. Maribeth H. Price, MI-315, 394-1290.