

BIOLOGY B.A. - NATURAL HISTORY

Bachelor of Arts - Biology; Natural History Concentration

General Education Requirements

Information regarding these requirements can be found in the General Education Section (<http://catalog.umd.edu/academics/general-education-requirements/>) of the catalog.

Summary

Code	Title	Hours
	Biology/Microbiology Lower-Division Core	17
	Upper-Division Core Courses Required by Natural History Concentration	24
	Required Courses Outside of the Major	34
	Chemistry and Geology Cognate Electives	
Total Hours		75

Degree Specific Credits: 75

Required Cumulative GPA: 2.0

Note: The Natural History concentration is designed for students who seek an interdisciplinary science program. This concentration is not research-oriented and is not considered a preparatory program for traditional research-based graduate programs. It is, however, designed for students seeking careers in environmental education, science writing or illustration, natural history or wildlife film-making, or natural history centers or museums. There is enough latitude in the requirements to allow for a minor or even a double major in a related field of interest (e.g. journalism, art, media arts, etc.).

Biology/Microbiology Lower-Division Core

Note: The lower-division core should be completed before attempting most upper-division major courses. AP Biology credit with a score of 3 may be substituted for either BIOB 160N/BIOB 161N or BIOB 170N/BIOB 171N.

Code	Title	Hours
Complete all of the following courses:		
BIOB 160N	Principles of Living Systems	3
BIOB 161N	Principles of Living Systems Lab	1
BIOB 170N	Principles of Biological Diversity	3
BIOB 171N	Principles of Biological Diversity Lab	2
BIOB 260	Cellular and Molecular Biology	4
BIOB 272	Genetics and Evolution	4
Total Hours		17

Minimum Required Grade: C-

Upper-Division Core Courses Required by Natural History Concentration

Code	Title	Hours
Complete one of the following Ecology courses:		5
BIOE 342	Field Ecology	
BIOE 370 & BIOE 371	General Ecology and General Ecology Lab (equivalent to 271)	
Complete all of the following courses:		
BIOE 406	Behavior & Evolution	3
BIOO 320	General Botany	5
BIOO 335	Rocky Mountain Flora	3
BIOO 462	Entomology	4
Complete one of the following courses:		4
BIOO 470	Ornithology	
BIOO 475	Mammalogy	
Total Hours		24

Minimum Required Grade: C-

Required Courses Outside of the Major

Chemistry and Earth Sciences

Code	Title	Hours
Complete all of the following courses:		
Chemistry:		
CHMY 121N	Introduction to General Chemistry	4
CHMY 123	Introduction to Organic and Biochemistry	4
CHMY 124	Introduction to Organic and Biochemistry Lab	2
Geology:		
ERTH 101N	Earth Systems Science	3
ERTH 103N	Earth Systems Science Lab	1
Total Hours		14

Minimum Required Grade: C-

Cognate Electives

Note:

- Students should plan on taking M 121 or higher level M course (prerequisite for BIOB 272 and GER math requirement) and STAT 216 (pre- or co-requisite for BIOE 371).
- Students interested in combining the Natural History concentration with another subject area may, with the advisor's permission, substitute 10 credits in English - writing, journalism, photography, art, modern & classical language, business management, or other appropriate field.

Code	Title	Hours
Complete 20 credits in the following disciplines, with a maximum of 10 credits in any one discipline:		20
	Anthropology (ANTY)	
	Astronomy (ASTR)	
	Chemistry (CHMY) - excluding CHMY 121N, 123, and 124	
	Geography (GPHY)	

Geology (GEO) - excluding GEO 101N and 102N	
Forestry/Natural Resource Management (FORS/NRSM)	
Mathematics/Statistics (M/STAT)	
Physics (PHSX)	
Wildlife Biology (WILD)	
Total Hours	20

Minimum Required Grade: C-