

BIOLOGY B.A. - NATURAL HISTORY

Bachelor of Arts - Biology; Natural History Concentration

College of Humanities & Sciences

Degree Specific Credits: 74

Required Cumulative GPA: 2.0

Catalog Year: 2018-2019

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.).

General Education Requirements

Information regarding these requirements can be found in the General Education Section (<http://catalog.umt.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	33
	Chemistry and Geology	
	Cognate Electives	
	Total Hours	74

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	Prncpls of Living Systems Lab	1
BIOB 170N	Prncpls Biological Diversity	3
BIOB 171N	Prncpls Biological Dvrsty 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 Gen Ecology Lab (equiv 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 Geology

Code	Title	Hours
	Complete all of the following courses:	
	Chemistry:	
CHMY 121N	Introduction to General Chemistry	3
CHMY 123	Introduction to Organic and Biochemistry	4
CHMY 124	Introduction to Organic and Biochemistry Lab	2
	Geology:	
GEO 101N	Introduction to Physical Geology	3
GEO 102N	Introduction to Physical Geology Lab	1
	Total Hours	13

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 20 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	

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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-