

Biology

Charles A. Dana Professor Karen Hinkle; Professor Lauren Howard; Associate Professors Megan Doczi, Scott Page (Chair); Assistant Professors Allison Neal and Simon Pearish; Lecturers Kylie Blodgett, David Ebenstein, Mary Beth Klinger-Lawrence and Virginia Kunkel.

A core curriculum of science, mathematics and English courses ensures development of appropriate analytical and communication skills. Rounding out the major, four free biology electives and seven free electives allow students to design their program to meet specific career goals and develop one or more minors and/or double majors. A special Pre-medical Committee oversees students on a Pre-medical/Pre-dental track (<http://catalog.norwich.edu/archives/2018-19/residentialprogramscatalog/collegeofscienceandmathematics/prehealth>) and assists in the placement of these graduates.

Biology is the scientific discipline that investigates life in all of its forms. An appreciation of the complexity of structure and function requires the use of a variety of teaching tools, including the use of living and preserved organisms. Consequently, both living and preserved organisms will be ethically and humanely employed whenever appropriate to further student understanding and appreciation for life.

Mission:

Biology and Neuroscience curricula offer students the opportunity to study the structure and function of living systems, from the complexity of cellular components to whole organism dynamics to ecosystem design.

Goals:

- Prepare students for admission into graduate, medical, optometry, dentistry, and veterinary medical schools as well as entry into the workforce in various biology-related fields.

Outcomes:

- Graduates understand and have broad knowledge of the biological or neurological sciences including, but not limited to, the botany, zoology, microbiological and other laboratory-based sciences, as well as ecology and other field sciences.
- Graduates are prepared for successful employment in a profession in the field of biology or neuroscience, or for graduate or professional school.

Careers for these Majors:

- Graduate School: Medical, Optometry, Dentistry, Veterinary Medicine
- Environmental Science
- Biotechnology
- Healthcare
- Education
- Research and Development

Major

B. S. in Biology – Curriculum Map 2018-2019 Catalog

Print PDF Curriculum Map (http://catalog.norwich.edu/residentialprogramscatalog/collegeofscienceandmathematics/biology/biol_1532616538546.pdf)

Course	Cr.Comp	Course	Cr.Comp
FRESHMAN			
Fall		Spring	
BI 101 Principles of Biology I (General Education Lab Science) ^c	4	BI 102 Principles of Biology II (General Education Lab Science) ^c	4
CH 103 General Chemistry I	4	BI 203 Introduction to Scientific Method & Bioscientific Terminology ^c	1
EN 101 Composition and Literature I	3	CH 104 General Chemistry II	4
MA 107 Precalculus Mathematics (General Education Math)	4	EN 102 Composition and Literature II	3
		MA 108 Applied Calculus (General Education Math) or 232 Elementary Statistics	3-4
Fall Semester Total Cr.:	15	Spring Semester Total Cr.:	15-16
SOPHOMORE			
Fall		Spring	
BI 205 Ecology ^c	4	BI 226 Cell Biology ^c	4
CH 225 Organic Chemistry I	4	CH 226 Organic Chemistry II	4
General Education History (http://catalog.norwich.edu/archives/2018-19/residentialprogramscatalog/generaleducationgoals)	3	General Education Leadership (http://catalog.norwich.edu/archives/2018-19/residentialprogramscatalog/generaleducationgoals)	1-3

General Education Literature (http://catalog.norwich.edu/archives/2018-19/residentialprograms/catalog/generaleducationgoals)	3	General Education Social Science (http://catalog.norwich.edu/archives/2018-19/residentialprograms/catalog/generaleducationgoals)	3
		Free Elective	3
Fall Semester Total Cr.:	14	Spring Semester Total Cr.:	15-17
JUNIOR			
Fall		Spring	
BI 303 Genetics ^c	4	BI 395 Evolution ^c	4
BI Elective ^c	4	BI Elective ^c	4
PS 201 General Physics I	4	PS 202 General Physics II	4
General Education Ethics (http://catalog.norwich.edu/archives/2018-19/residentialprograms/catalog/generaleducationgoals)	3	General Education Arts & Humanities (http://catalog.norwich.edu/archives/2018-19/residentialprograms/catalog/generaleducationgoals)	3
Free Elective	3	Free Elective	3
Fall Semester Total Cr.:	18	Spring Semester Total Cr.:	18
SENIOR			
Fall		Spring	
BI 401 Senior Seminar (Capstone) ^c	3	BI Elective ^c	4
BI Elective ^c	4	Free Elective/Biology Elective ^c	3
Free Elective/Biology Elective	3	Free Elective	3
Free Elective	3	Free Elective	3
Fall Semester Total Cr.:	13	Spring Semester Total Cr.:	13
TOTAL CREDITS FOR THIS MAJOR: 121-124			

^c Grade of C or higher required.

Minor

Biology Minor Curriculum Map 2018-2019 Catalog

Must earn a C or higher in all courses.

BI 101	Principles of Biology I	4
BI 102	Principles of Biology II	4
BI Elective (200 level or higher)		3-4
BI Elective (200 level or higher)		4
BI Elective (200 level or higher)		4
Bi Elective (200 level or higher)		4
Total Cr.		23-24

1 PE 365, PE 371, or CH 324 may be substituted for one BI Elective (200 level or higher) course.