

BACHELOR OF SCIENCE

BIOLOGY with Marine Biology Minor



Approved Sample Curriculum

The curriculum in Biology, formulated according to both classical and contemporary biological concepts, prepares the student for continuing intellectual growth and professional development in the life sciences.

The major program in Biology meets the requirements for most graduate programs in biology and the requirements for dental, medical, veterinary, and other medically related programs. Students interested in pursuing any of these medically related programs should consult the pre-medical advisor.

First Year

Fall	CR	Spring	CR
FYE150 First-Year Seminar	1	ENG150 Literature, Writing and Research	3
BIO101/101L General Biology I	4	BIO102/102L General Biology II	4
CHE111/111L General Chemistry I	4	CHE113/113L General Chemistry II	4
History OR <i>BIO 236/236L Marine Science for Sustainable Seas</i>	3-4	COM105 Foundations of Public Speaking	3
CIS111 Introduction to Computer Info Systems	3	MAT115 Pre-calculus** OR MAT143 Elements of Calculus*	3-4
Subtotal			Subtotal
15-16			17 - 18

Second Year

Fall	CR	Spring	CR
History OR <i>BIO 236/236L Marine Science for Sustainable Seas</i>	3-4	BIO206/206L Genetics	4
BIO204 Evolution Seminar	3	CHE240/240L Organic Chemistry II	4
CHE220/220L Organic Chemistry I	4	MAT205 Introductory Statistics	3
MAT143 Elements of Calculus* OR Elective	3-4	Social Science Core	3
BIO205 Biological Literature	3	Outer Core Elective (Minor, Second Major, or Outer core sequence)	3-4
Subtotal			Subtotal
16 - 18			17-18

Third Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	<i>BIO 311/311L Marine Biology OR BIO 336/336L Oceanography</i>	4
PHY121/121L Elements of Physics I	4	PHY122/122L Elements of Physics II	4
Foreign Language	3	Fine Arts Core	3
ENG200+ English Literature	3	Theology Core	3
Outer Core Elective (Minor, Second Major, or Outer core sequence)	3	Philosophy Core #1	1-3
Subtotal			Subtotal
17			15-17

Fourth Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	<i>BIO 311/311L Marine Biology OR BIO 336/336L Oceanography</i>	4
BIO3XX Biology Elective	4	BIO489 Senior Seminar	3
Philosophy Core #2	1-3	Theology Core	3
Theology Core	3	Outer Core Elective (Minor, Second Major, or Outer core sequence)	3
<i>BIO 400 or 495 Independent Study or Internship</i>	1-2	<i>BIO 495 Methods in Marine Biology and Conservation</i>	3
Subtotal			Subtotal
13-16			16

Total Credits: 129 - 137

* Students with an ACT composite below 24 must take MAT 115 the fall semester. Students with an ACT composite above 24 may take MAT 115 if they choose or begin with MAT 143 in the fall or spring semester. It is highly recommended that students take MAT143 in their first year. If fewer credit hours are to be taken, students should postpone taking HIS101 and/or ENG150.

** Required for students with ACT composite of below 24, optional for students with ACT composite above 24

Updated: Spring 2024

Please note: No student earning a BS in Biology may graduate with more than one "C-" in an Biology (BIO) course required for their major.



Approved Sample Curriculum

The curriculum in Biology, formulated according to both classical and contemporary biological concepts, prepares the student for continuing intellectual growth and professional development in the life sciences. The major program in Biology meets the requirements for most graduate programs in biology.

First Year

Fall	CR	Spring	CR
FYE150 First-Year Seminar	1	ENG150 Literature, Writing and Research	3
BIO101/101L General Biology I	4	BIO102/102L General Biology II	4
CHE111/111L General Chemistry I	4	CHE113/113L General Chemistry II	4
History <u>OR</u> BIO 236/236L Marine Science for Sustainable Seas	3-4	COM105 Fundamentals of Public Speaking	3
CIS111 Introduction to Computer Info Systems	3	MAT115 Pre-calculus (if taking Physics later) OR Elective	3
Subtotal		15-16	Subtotal 17

Second Year

Fall	CR	Spring	CR
History <u>OR</u> BIO 236/236L Marine Science for Sustainable Seas	3-4	ENG200+ English Literature	3
BIO204 Evolution Seminar	3	BIO206/206L Genetics	4
CHE220/220L Organic Chemistry I <u>OR</u> PHY121/121L Elements of Physics I *	4	CHE240/240L Organic Chemistry II <u>OR</u> PHY122/122L Elements of Physics II	4
BIO205 Biological Literature	3	MAT205 Introductory Statistics	3
Social Science Core	3		
Subtotal		16-17	Subtotal 14

Third Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	BIO 311/311L Marine Biology <u>OR</u> BIO 336/336L Oceanography	4
Outer Core Elective (Minor, Second Major, or Outer core sequence)	3	Outer Core Elective (Minor, Second Major, or Outer core sequence)	3-4
Foreign Language	3	Theology Core	3
Fine Arts Core	3	Philosophy Core #1	1-3
Elective or BIO Concentration Course	3-4	Elective or BIO Concentration Course	3-4
Subtotal		16 - 17	Subtotal 14 - 17

Fourth Year

Fall	CR	Spring	CR
BIO3XX Biology Elective	4	BIO 311/311L Marine Biology <u>OR</u> BIO 336/336L Oceanography	4
BIO3XX Biology Elective	4	BIO489 Biology Seminar	3
Philosophy Core #2	1-3	Theology Core	3
Outer Core Elective (Minor, Second Major, or Outer core sequence)	3-4	BIO 495 Methods in Marine Biology and Conservation	3
BIO 400 or 495 Independent Study or Internship	1-2		
Subtotal		15-17	Subtotal 13

Total Credits: 121 – 128

*Students must complete 8 hours of Organic Chemistry and/or Physics. Physics requires MAT115 or higher.

Please note: No student earning a BA in Biology may graduate with more than one letter grade lower than a “C” in a Biology (BIO) course that is required for the major. (i.e., only one grade “C-” or lower)

Updated: Spring 2024