



Bachelor of Science in Biology

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The **General Biology** Program:

The General Biology degree (as do all concentrations) requires the following:

- BIOL B101 & B102: Biological Principles I (4) and Biological Principles II (4)
 - BIOL B301/B301L Ecology and Evolution (3) with Laboratory (1)
 - BIOL B302/B302L Cell and Molecular Biology (3) with Laboratory (1)
 - BIOL B303 Fundamental Genetics (3)
 - BIOL B460/B460L General Physiology (3) with Laboratory (1) (**Capstone** for no concentration)
- Math: Two semesters of Calculus or higher math: MATH B141(4), B142(4), B122(3), B170 (3) or B172(3)
- Chemistry: Four semesters: CHEM B111(4), B112(4), B333(3), B331L(1), B334(3), B332L(1)
- Physics: one semester: PHYS B201(3)/B201L(1) or B211(3)/B211L(1)

For upper level electives, you can choose as you please, but we recommend the following:

- BIOL B399— Independent Research (variable up to 3/course)
 - different times based on faculty availability As Needed
- BIOL B405 – Developmental Biology I (4) Spring Odd
- BIOL B410— Invertebrate Zoology (+lab) (4) Fall Even
- BIOL B411— Marine Adaptations (+lab) (4) Fall Odd
- BIOL B425— Marine Plants (+ lab) (4) not offered regularly
- BIOL B430 - Histology (4) Spring Even
- BIOL B431/B431L – Bacteriology (3) and Laboratory (1) Spring Even
- BIOL B435/B435L – Neurobiology (3) and Laboratory (1) Fall Odd
- BIOL B436— Ichthyology (+ lab) (4) Fall Even
- BIOL B441/B441L – Principles of Biochemistry (3) and Laboratory (1) every Fall
- BIOL B450/B450L – Biological Oceanography (3) and Laboratory (1) every Spring
- BIOL B451 – Forensic Techniques & Data Analysis (3) Spring Odd

BIOL B471— Conservation Biology (+ lab) (4)	Spring Even
BIOL B475/B475L— Marine Ecology and Lab (3/1)	Spring Odd
BIOL B480— Molecular Ecology (3)	Spring Even
BIOL B448— Life and Death in the Salt Marsh (4)	every Maymester
BIOL B478 - Herpetology (4)	Spring Odd
BIOL B490 – Marine Policy (3)	every Fall
BIOL B498 – Biological Research: An Introduction (4)	every Fall?
BIOL B499— Special Topics (related to Marine Biology) (variable up to 3/course) different times based on student interest and faculty availability (1-3)	

The following is a suggested program of schedule for a 4-year completion of the Marine Biology program. You do not have to take these courses in this precise order, but the more you vary from this prescribe curriculum—the more likely a conflict in scheduling might make things more difficult for your timely completion of your degree.

Curriculum by Year					
Course Name	Credits	Course Name	Credits	Course Name	Credits
Year 1					
Fall		Spring		Summer	
ENGL B101 English Composition	3	ENGL B102 Engl. Comp & Lit	3		
MATH B111 or B115 Algebra or Precalculus	3(4)	MATH B115 or B141 Precalculus or Calculus I*	4		
BIOL B101 Biological Principles I	4	BIOL B102 Biol. Principles II	4		
PSYC B101 Psychology	3	CHEM B111 Gen. Chemistry I	4		
BIOL B290 Biology or B100 Honors Seminar	1				
Total Semester Hours	14 +	Total Semester Hours	15		
Year 2					
Fall		Spring		Summer	
BIOL B301 Ecology & Evolution (w/Lab) or BIOL B303 Fundamental Genetics	4 3	BIOL B302/302L Cell & Molecular Biology with Lab.	4	BIOL B480— Molecular Ecology (Maymester elective?)	3
CHEM B112 General Chemistry II	4	CHEM B333 Organic Chemistry I	3		
MATH B141 or B142 Calculus I or II*	4	CHEM B331L Organic Chemistry I Lab	1		
GE/Elective or Foreign Language	3	MATH B142 Calculus II* or GE/Elective	4(3)		
Total Semester Hours	17	Total Semester Hours	14+	Hours	3
Year 3					
Fall		Spring		Summer	
BIOL B303 Fundamental Genetics or BIOL B301 Ecology & Evolution (w/Lab)	3 4	Upper Level elective	4	BIOL B448 (Maymester elective?)	4
CHEM B334 Organic Chem. II	3	BIOL B399+ Biology Elective (w/Lab)	3(4)		
CHEM B332L Organic Chem. II Lab	1	STAT B201 Elementary Stats	3		
PHYS B2X1† Physics I	3	Upper Level elective	4		
PHYS B2X1L† Physics I Lab	1				
GE/Electives/Foreign Language	6	GE/Elective ²	3		
Total Semester Hours	14+	Total Semester Hours	14+	Hours	4
Year 4					
Fall		Spring		Summer	
BIOL B399+ Biology Elective (w/ Lab)	3(4)	BIOL 460 General Physiology (req'd)	3		
BIOL B399+ Biology Elective (w/ Lab)	3(4)	BIOL 460L General Physiology Lab (req'd)	1		
BIOL B399+ Biology Elective (w/ Lab)	3(4)	GE/Elective	3		
GE/Elective	3	GE/Elective	3		
GE/Elective	3	GE/Elective	3		
Total Semester Hours	15+	Total Semester Hours	14	Hours	0

*Math requirements to satisfy degree; either: MATH B141/B142, MATH B141/B170, MATH B141/B172, MATH B122/B170, or MATH B122/B172

† Either PHYS B201/201L OR PHYS B211/211L are acceptable.