

Biological Sciences Major Requirements: **SYSTEMATICS AND BIOTIC DIVERSITY**

This checklist serves as an advising tool for foundation and concentration requirements. It does not include CALS/A&S college requirements. Students are responsible for understanding all degree requirements, appropriate course sequencing and prerequisites and should consult the *Courses of Study* for additional information.

FOUNDATION REQUIREMENTS						
Course Subject	Course No.	Course Title	Credit Hours	Semester Taken	✓ when done	Notes
Introductory Biology Cluster (Take two of the three following subjects) <i>*AP credit for biology does not count towards the major</i>						
BIOMG	1350	Principles of Cell & Developmental Biology	3			
BIOG	1440 or 1445	Introduction to Comparative Physiology or Individualized Instruction	3 4			
BIOEE	1610	Ecology and the Environment <small>(*Also offered as summer course at Shoals Marine Lab)</small>	3 <small>(*4 cr. WIM option)</small>			
Investigative Laboratory						
BIOG	1500	Biology Laboratory <small>(*Also offered as summer course at Shoals Marine Lab)</small>	2			
Evolutionary Biology and Diversity						
BIOEE	1780	Evolutionary Biology & Diversity <small>(*Also offered as summer course at Shoals Marine Lab)</small>	4 <small>(*5 cr. WIM option)</small>			
General Chemistry (CHEM 2070 & 2080 OR CHEM 2150)						
CHEM	2070	General Chemistry I	4			
	2080	General Chemistry II	4			
CHEM	2150	Honors General and Inorganic Chemistry	4			
College Mathematics (Two courses: one calculus AND one additional math. Consult <i>Courses of Study</i> for acceptable math courses.)						
MATH	1106 or 1110	Calculus for the Life and Social Sciences or Calculus I	3 4			
XXXX	####	Math/Calculus II/Statistics	3-4			
Organic Chemistry (CHEM 1570 OR CHEM 3570 & 3580 OR CHEM 3590 & 3600 OR CHEM 3530)						
CHEM	1570	Introduction to Organic & Biological Chemistry	3			
CHEM	3570	Organic Chemistry for the Life Sciences I &	3			
	3580	Organic Chemistry for the Life Sciences II	3			
CHEM	3590	Honors Organic Chemistry I	4			
	3600	Honors Organic Chemistry II	4			
CHEM	3530	Principles of Organic Chemistry	4			
Physics (PHYS 1101 & 1102 OR PHYS 2207 & 2208 OR PHY 1112 & 2213)						
PHYS	1101	General Physics I &	4			
	1102	General Physics II	4			
PHYS	2207	Fundamentals of Physics I &	4			
	2208	Fundamentals of Physics II	4			
PHYS	1112	Physics I: Mechanics & Heat &	4			
	2213	Physics II: Electromagnetism	4			
Genetics and Genomics (Lecture must be taken either concurrently or before the laboratory)						
BIOMG	2800	Lectures in Genetics and Genomics	3			
	2801	Laboratory in Genetics and Genomics	2			
Biochemistry and Molecular Biology (BIOMG 3300 OR BIOMG 3330 OR BIOMG 3350 OR BIOMG 3310 & 3320)						
BIOMG	3300	Principles of Biochemistry, Individualized Instruction	4			
BIOMG	3330	Principles of Biochemistry: Proteins, Metabolism, and Molecular Biology	4			
BIOMG	3350	Principles of Biochemistry: Proteins, Metabolism and Molecular Biology	4			
BIOMG	3310	Biochemistry: Proteins and Metabolism &	3			
	3320	Biochemistry: Molecular Biology	2			

CONCENTRATION REQUIREMENTS: Systematics and Biotic Diversity

*Students are expected to consult with their faculty advisor when choosing courses towards concentration requirements.

Course subject	Course No.	Course Title	Credit Hours	Semester Taken	✓ when done	Notes
Additional Courses (Minimum of 13 additional credits from Groups A and B, with at least 7 credits from Group A and 3 credits from Group B, and at least 2 laboratory courses. Consult <i>Courses of Study</i> for list of acceptable courses.)						

Consult the Biological Sciences section in *Courses of Study* for complete details regarding the major and for courses satisfying requirements. Also, consult college sections in *Courses of Study* for information on college requirements for graduation.

LONG-RANGE SCHEDULE PLANNER

	Fall	Spring	(Summer)
1 st Year			
2 nd Year			
3 rd Year			
4 th Year			