

Biological Sciences Major Requirements: BIODIVERSITY AND SYSTEMATICS

This checklist serves as an advising tool for foundation and concentration requirements. It does not include CALS /Arts 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.

| Course Subject | Course #. | Course Title | Credit Hours | Semester Taken | ✓ when done | Notes |
|--|--------------|--|--------------------------|----------------|-------------|-------|
| Introductory Biology Cluster (Take two of the three following subjects) *AP credit for biology does not count towards the major | | | | | | |
| 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 (*Also offered as summer course at Shoals Marine Lab) | 3 (*4 cr. WIM option) | | | |
| Investigative Laboratory | | | | | | |
| BIOG | 1500 | Biology Laboratory (*Also offered as summer course at Shoals Marine Lab) | 2 | | | |
| Evolutionary Biology and Diversity | | | | | | |
| BIOEE | 1780 or 1781 | Evolutionary Biology & Diversity Introduction to Evolution and Diversity (*Also offered as summer course at Shoals Marine Lab) | 4 4 | | | |
| 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 (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 to 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)*Consult <i>Courses of Study</i> for more options | | | | | | |
| PHYS | 1101 | General Physics I & | 4 | | | |
| | 1102 | General Physics II | 4 | | | |
| PHYS | 2207 | Fundamentals of Physics I & | 4 | | | |
| | 2208 | Fundamentals of Physics II | 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 3350 OR BIOMG 3310 & 3320) | | | | | | |
| BIOMG | 3300 | Principles of Biochemistry, Individualized Instruction | 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: **Biodiversity and Systematics**

***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.) | | | | | | |
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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 | | | |