

**Spring 2020**  
**Bachelor of Arts in Biology**  
**Specialization in Marine & Aquatic Biology**

**BG Perspective (BGP) Requirements**

**Must complete at least 1 course in each of the following:**

|  |         |
|--|---------|
| English Composition and Oral Communication |         |
| Course                                     | Credits |
| _____                                      | _____   |
| Quantitative Literacy                      |         |
| _____                                      | _____   |

**Must Complete at least 2 courses in each of the following:**

|  |       |
|--|-------|
| Humanities and the Arts                              |       |
| _____  | _____ |
| _____  | _____ |
| Natural Sciences - at least one Lab Science required |       |
| _____  | _____ |
| _____  | _____ |
| Social and Behavioral Sciences                       |       |
| _____  | _____ |
| _____  | _____ |

**Complete total required BGP credit hours by selecting courses from any of the above categories:**

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

**University Requirements** Designated courses in Humanities and the Arts and the Social and Behavioral Sciences domains may be used to fulfill both the BGP requirement and one of the following university requirements:

|                              |       |
|------------------------------|-------|
| Cultural Diversity in the US | _____ |
| International Perspective    | _____ |

**Composition Requirement:**

|  |       |
|--|-------|
| WRIT 1120 Research Writing             | _____ |
| Total BGP Credits: Must be at least 36 | _____ |

**Arts & Sciences Requirements**

**Foreign Language** (\_\_\_\_ yrs of HS \_\_\_\_\_)

|       |           |       |
|-------|-----------|-------|
| _____ | 1010      | _____ |
| _____ | 1020      | _____ |
| _____ | 2010      | _____ |
| _____ | 2020/2120 | _____ |

**Lab Science**

|       |       |       |
|-------|-------|-------|
| _____ | _____ | _____ |
|-------|-------|-------|

**Multidisciplinary Component** Select from approved offerings, in consultation with an advisor and a faculty mentor. Four courses total, each with a different subject prefix. At least two courses at 3000/4000 level. Courses applied to the Arts & Sciences MDC may not be used to fulfill other Arts and Sciences degree requirements, nor may they be used to fulfill major, minor, BGP or other program requirements.

|       |       |       |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

**Major Requirements (36+ Hrs.)**

Core courses in Biology (16 hours)

| Hrs | Grade |                                  |
|-----|-------|----------------------------------|
| 1   | _____ | BIOL 2000 Biology Today          |
| 4   | _____ | BIOL 2040 Concepts in Biology I  |
| 4   | _____ | BIOL 2050 Concepts in Biology II |
| 4   | _____ | BIOL 3500 Genetics               |
| 3   | _____ | BIOL 3510 Evolution              |

**Marine & Aquatic Biology Specialization**

Courses required (11+ hours)

|     |       |   |
|-----|-------|---|
| 3   | _____ | BIOL 3540 Principles of Ecology         |
| 3   | _____ | BIOL 3700 Intro to Inland Marine Res    |
| 3   | _____ | BIOL 3740 Marine Biology <b>or</b>      |
|     |       | BIOL 4250 Limnology*                    |
| 1   | _____ | BIOL 4520 or BIOL 4540                  |
| 1-6 | _____ | Field Course (BIOL 4750, 4870, or 4880) |

**\*Note:** BIOL 3740 and BIOL 4250 may not count in both the Specialization requirements and the Group requirements.

Ensure that you have at least 10 hours of Biology courses at the 4000-level selected from any of the elective groups listed below. For electives, select at least 1 course from each of Groups A-D.

A maximum of 5 credit hours from the following courses may be included in the required 10 credit hours of 4000-level Biology required for the major: BIOL 4010, 4520, 4530, 4540, 4700, 4890. These courses may be repeated.

**Group A: Ecology & Conservation**

|   |       |  |
|---|-------|--|
| 3 | _____ | BIOL 4090 Conservation Biology             |
| 3 | _____ | BIOL 4100 Conservation Biology in Practice |
| 3 | _____ | BIOL 4160 Landscape Ecology                |
| 4 | _____ | BIOL 4200 Animal Behavior                  |
| 4 | _____ | BIOL 4220 Restoration Ecology              |
| 3 | _____ | BIOL 4250 Limnology                        |
| 3 | _____ | BIOL 4290 Evolutionary Ecology             |
| 4 | _____ | BIOL 4450 Environmental Microbiology       |
| 3 | _____ | BIOL 4710 Sensory Ecology                  |
| 3 | _____ | ENVS 4120 Great Lakes Ecosystems           |

**Group B: Biodiversity**

|   |       |  |
|---|-------|--|
| 4 | _____ | BIOL 3130 Microbiology                 |
| 4 | _____ | BIOL 3430 Botany                       |
| 3 | _____ | BIOL 3740 Marine Biology               |
| 4 | _____ | BIOL 4050 Parasitology                 |
| 4 | _____ | BIOL 4140 Plant Taxonomy and Evolution |
| 4 | _____ | BIOL 4270 Invertebrate Biology         |
| 3 | _____ | BIOL 4300 Wildlife Biology             |
| 4 | _____ | BIOL 4350 Entomology                   |
| 3 | _____ | BIOL 4720 Ichthyology                  |
| 4 | _____ | BIOL 4730 Mammalogy                    |
| 3 | _____ | BIOL 4760 Herpetology                  |
| 3 | _____ | BIOL 4770 Ornithology                  |

**Groups C-D and Minor are listed on the next page.**

**Group C: Cell, Molecular & Regulatory Biology**

|   |       |  |
|---|-------|--|
| 4 | _____ | BIOL 4070 Cell Biology                     |
| 3 | _____ | BIOL 4080 Molecular Biology                |
| 4 | _____ | BIOL 4110 Animal Physiology                |
| 3 | _____ | BIOL 4180 Neurophysiology                  |
| 3 | _____ | BIOL 4210 Molecular Biotechnology          |
| 3 | _____ | BIOL 4310 Developmental Biology            |
| 3 | _____ | BIOL 4370 Light Microscopes and 3D Imaging |
| 4 | _____ | BIOL 4380 Endocrinology                    |
| 3 | _____ | BIOL 4390 Immunobiology                    |
| 3 | _____ | BIOL 4400 Molecular Neurobiology           |
| 3 | _____ | BIOL 4420 Virus and Plasmid Biology        |
| 3 | _____ | BIOL 4430 Microbial Physiology             |
| 4 | _____ | BIOL 4460 Scanning Electron Microscopy     |
| 3 | _____ | BIOL 4470 Microbial Genetics               |
| 3 | _____ | BIOL 4660 Genomics                         |

**Group D: Quantitative & Applied Science**

|     |       |  |
|-----|-------|--|
| 1-4 | _____ | BIOL 4010 Biological Research              |
| 1-3 | _____ | BIOL 4890 Biology Internship               |
| 3   | _____ | SEES 3000 Geospatial Science               |
| 3   | _____ | SEES 4100 Geographic Information Systems   |
| 3   | _____ | SEES 4500 Remote Sensing                   |
| 3   | _____ | Statistics (BA 2110, MATH 2470, BIOL 4620) |

**Biology Electives:** These courses do not meet the group requirements but do count toward the 10 hours of required courses at the 4000 level: BIOL 4500, 4700, 4900.

**Additional Required Courses:** Chemistry, Math & Physics

**General Chemistry I**

|   |       |   |
|---|-------|---|
| 4 | _____ | CHEM 1230 General Chemistry I and           |
| 1 | _____ | CHEM 1240 General Chemistry I Lab <b>OR</b> |
| 5 | _____ | CHEM 1350 General Chemistry w/Lab           |

**General Chemistry II**

|   |       |  |
|---|-------|--|
| 4 | _____ | CHEM 1270 or CHEM 1370 General Chemistry |
| 1 | _____ | CHEM 1280 or CHEM 1380 Gen Chemistry Lab |

**Math**

|     |       |   |
|-----|-------|---|
| 3-5 | _____ | MATH 1150 or MATH 2470 or SOC 2690 or PSYC 2700<br>or STAT 2000 or BA 2110 or BIOL 4620 |
| 3-6 | _____ | MATH 1220 or MATH 1280 or MATH 1310 or<br>MATH 1340 & MATH 1350                         |

**Physics**

|     |       |  |
|-----|-------|--|
| 3-5 | _____ | PHYS 1010 Basic Physics or<br>PHYS 2010 College Physics I or<br>PHYS 2110 University Physics I |
|-----|-------|--|

**\*Note:** MATH 2470, BA 2110 and BIOL 4620 may not count in both the Group D and the Additional Required Courses sections.

**Minor Requirements:** (Usually 21 hours)

|       |       |       |
|-------|-------|-------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

\_\_\_\_\_  
Name (Print First & Last Name)

\_\_\_\_\_  
BGSU ID#

\_\_\_\_\_  
Phone (Cell or Local Number)

**For Graduation You Will Need:**

1. 122 credit hours minimum.

**In Progress/Completed** \_\_\_\_\_ **Needed** \_\_\_\_\_

2. Minimum GPA 2.00.

**Current GPA** \_\_\_\_\_

3. At least 30 credit hours of BGSU course work.

**In Progress/Completed** \_\_\_\_\_ **Needed** \_\_\_\_\_

4. 40 credit hours at the 3000/4000 level.

**In Progress/Completed** \_\_\_\_\_ **Needed** \_\_\_\_\_

5. Completion of all degree requirements, including the BG Perspective Core.

**In Progress/Completed** \_\_\_\_\_ **Needed** \_\_\_\_\_

6. A major, and if required, a minor, specialization or emphasis.

**Declared with the College Office**  **Yes**  **No**

Any substitution or waiver of courses required for your major or minor program must originate in the department/school offering the major or minor and must be approved by the College Office.

To ensure a timely graduation, see a **College Advisor** during the semester prior to your intended graduation.

Remember to complete an **Application for Graduation** by the end of the second week of classes during the fall semester or spring regular session, or by the end of the first week of the summer semester. For the specific dates, check your DARS. You may log onto MyBGSU to complete the online application. After the deadlines, you will need to complete an application in person in the College Office.