### Spring 2015 Bachelor of Science Junior Audit for Biology

#### Marine & Aquatic Biology Specialization

Name: ____________________________  BGSU ID: ________________________

Return Address: ____________________________

Phone Number: ______________________  Expected Date of Graduation: ______________________

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**BG Perspective Requirements:**
- 2 Natural Sciences
- 2 Social Sciences
- 2 Arts & Humanities
- International Perspective
- Cultural Diversity
- GSW 1120
- Quantitative Literacy (Group C Recommended)

*These courses may apply toward the requirements listed below*

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#### I. English Composition

(Only 6 hours GSW 1100, 1110, 1120 will apply towards graduation)

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- GSW 1100/1110
- GSW 1120

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#### II. Foreign Language

(______ yrs HS ______)

(Courses used for the foreign language requirement may not be used for major or minor requirements)

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- 1010
- 1020
- 2010
- 2020/2120

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#### III. Science & Math

45 hours in 2 or more areas including major and lab science sequence

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- MATH 1310 (or 1340 & 1350) (QL)
- BIOL 2040 Concepts in BIOL I
- BIOL 2050 Concepts in BIOL II

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#### IV. Social Sciences

Choose 4 courses

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#### V. Arts & Humanities

4 courses, at least 1 literature and 1 fine art

- Literature
- Fine Arts

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### Additional Biology Required Courses:

- Chemistry & Physics
  - 5 CHEM 1250 or 1350 General Chemistry
  - 4 CHEM 1270 or 1370 General Chemistry
  - 1 CHEM 1280 or 1380 Gen Chemistry Lab
  - 4-5 CHEM 3060 or 3410 Organic Chemistry
  - 5 PHYS 2010 College Physics I

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### Major Requirements (36+ hours)

**Core courses in Biology (15 hours)**

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- 1 BIOL 2000 Biology Today
- 5 BIOL 2040 Concepts in Biology I
- 5 BIOL 2050 Concepts in Biology II
- 4 BIOL 3500 Genetics

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

### Marine & Aquatic Biology Specialization

Courses required (11+ hours)

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- 3 BIOL 3540 Principles of Ecology
- 3 BIOL 3700 Intro to Inland Marine Res
- 3 BIOL 3740 Marine Biology
- 1 BIOL 4520 or BIOL 4540
  - Field Course (BIOL 4750, 4870, or 4880)

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

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- 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
- 3 BIOL 4410 Chemical Ecology
- 4 BIOL 4450 Environmental Microbiology
- 3 BIOL 4510 Evolution
- 3 BIOL 4710 Sensory Ecology
- 3 ENVS 4120 Great Lakes Ecosystems

#### Group B: Biodiversity

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- 3 BIOL 3010 Field Biology of the Vertebrates
- 4 BIOL 3130 Microbiology
- 4 BIOL 3430 Botany
- 4 BIOL 4050 Parasiology
- 4 BIOL 4140 Plant Taxonomy and Evolution
- 4 BIOL 4240 Algalogy
- 4 BIOL 4270 Invertebrate Biology
- 4 BIOL 4350 Entomology
- 3 BIOL 4720 Ichthyology
- 3 BIOL 4730 Mammmalogy
- 3 BIOL 4760 Herpetology
- 3 BIOL 4770 Ornithology

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Note important information on other side

Groups C-D and Minor are listed on other side.
### Group C: Cell, Molecular & Regulatory Biology
- 4 BIOL 4070 Cell Biology
- 3 BIOL 4080 Molecular Biology
- 4 BIOL 4110 Animal Physiology
- 4 BIOL 4170 Plant Molecular Biology
- 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 GEOL 4130 Introduction to Remote Sensing
  - 4 GEOG 4240 Geog. Info. Systems
  - 4 GEOL 4400 Geologic Remote Sensing
  - 3 SEES 3000 Geospatial Science
  - 3 Statistics (STAT 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.

**Minor Requirements:** A “general science” minor is offered to students in place of a conventional minor. Consult your Faculty Advisor. (A conventional minor may also be chosen, usually 20 hours, no Biology courses can be used.)

### INSTRUCTIONS:
You must complete an official junior audit with your college advisor during your junior year [60-89 hours]. To do so, you must schedule an appointment with a college advisor. You should bring a completed copy of this check sheet and a current copy of your Degree Audit Reporting System (DARS) report. Your college advisor will provide you with a detailed form that specifies your remaining requirements for graduation.

### FOR GRADUATION YOU WILL NEED
1. Minimum GPA 2.00
2. 122 credit hours minimum, and,
3. A major, and if required, a minor, specialization or emphasis
4. 40 credit hours at the 3000/4000 level
5. Completion of all degree requirements, including the BG Perspective Core
6. At least 30 credit hours of BGSU course work
7. An official audit completed during the junior year, on file in the College Office

Any substitution or waiver of courses required for your major program must originate in the department/school offering the major program 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 and spring semesters, or by the end of the first week of the summer semester. For the specific dates, check with the College office or the Office of Registration and Records. You may log onto MyBGSU to complete the on-line application. After the deadlines, you will need to complete an application in person in the College office.

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