**Checklist for the Ecology, Evolution, and Marine Biology (EEMB) Concentration in** **Biology**

1. **Introductory Biology Requirement**

 Biology 1102 OR Biology 1109

1. **Foundation: Foundations in Ecology, Evolution, and Marine Biology – Two from**

Biol 2327: Ecology - Fall

 Biol 2316: Evolution – Spring **OR** Biol 2130: Population Genomics - Fall

Biol 2319: Biology of Marine Organisms **OR** Biol 2333: Benthic Ecology

 (Marine semester) - Fall

1. **Molecular & Cellular Biology**

Biol 2112: Genetics and Molecular Biology - Spring

 or

Biol 2175: Developmental Biology - Fall

 or

Biol 2118: Microbiology - Spring

 or

Biol 2124: Biochemistry and Cell Biology - Fall

1. **Integrative Physiology**

 Biol 2135: Neurobiology - Fall

 or

 Biol 2210: Plant Ecophysiology - Spring

 or

 Biol 2214: Comparative Animal and Human Physiology - Spring

1. **Research in Ecology, Evolution, and Marine Biology**

Bio 3308: Research in Ecology, Evolution, and Marine Biology - Spring

1. **Introductory Chemistry Requirement**

Chemistry 1092 **or** Chemistry 1102 **or** Chemistry 1109 **or** any Chemistry above 1109

1. **Math (1300 or above) OR Psychology 2520**

1. **Advanced Topics in Ecology, Evolution, and Marine Biology – 2 Courses**

 Choose two of the following courses, *at least one of which must be above 2500*.

Biol 2503: Methods in Ocean Change Ecology (Marine Semester) - Fall

Biol 2554: Biomechanics– Spring

Biol 2481: Forest Ecology and Conservation - Fall

Biol 3117: Current Topics in Marine Science (Marine Semester)- Fall

Biol 3280: Plant Responses to the Environment – Fall

Biol 3307: Evolutionary Developmental Biology - Spring

Biol 3309: Ecotoxicology

Biol 3317: Molecular Evolution– Fall

Biol 3581: Ecological Genetics – Spring

Biol 2557: Immunology – Spring

Biol 3353: Animal Behavior – Spring

Biol 3310: Advanced Evolution

Biol 3320: Natural History of Maine

1. **Natural and Computational Science: Two additional Courses in Natural and Computational Sciences**

Biol 1101: Biological Principles I -Fall

Biol 1174: Biomathematics – Spring

Biol 2024: Science Communication – Fall

Biol 2130: Population Genomics – Fall [if not used to meet another major requirement]

Biol 2210: Plant Ecophysiology -Spring [If not used to meet another major

requirement]

Biol 2319: Biology of Marine Organisms [If not used to meet another major

requirement] –Fall

Biol 2333: Benthic Ecology (Marine Semester) [If not used to meet another major

requirement] -Fall

Biol 3314: Advanced Genetics and Epigenetics –Fall

Chem 2050: Environmental Chemistry – Spring

Chem 2250: Organic Chemistry 1

CSCI 1101: Introduction to Computer Science (or higher)

Envs 2004: Understanding Place: GIS and Remote Sensing – Spring

Envs 2201: Perspectives in Environmental Science - Spring

EOS 1505: Oceanography - Spring

EOS 2005: Biogeochemistry – Fall

EOS 2525: Marine Biogeochemistry– Spring

EOS 2550: Satellite Remote Sensing of the Ocean – Fall

EOS 2625: Ocean Acidification - Fall

PHYS 1130: Introductory Physics I OR PHYS 1140: Introductory Physics II -Spring or Fall