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

☐ **1. Introductory Biology Requirement**

Biology 1102 OR Biology 1109

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

Biol 2327: Ecology - Fall

Biol 2316: Evolution – Spring **OR** Biol 2499: Population Genomics - Fall

Biol 2319: Biology of Marine Organisms **OR** Biol 2333: Benthic Ecology (Marine semester) - Fall

☐ **3. Molecular & Cellular Biology**

Biol 2112: Genetics and Molecular Biology - Fall
or
Biol 2175: Developmental Biology - Fall
or
Biol 2118: Microbiology - Spring
or
Biol 2124: Biochemistry and Cell Biology – Fall
Or
Biol 2134: Biochemistry and Molecular Biology - Spring

☐ **4. Integrative Physiology**

Biol 2135: Neurobiology - Fall
or
Biol 2210: Plant Ecophysiology - Spring
or
Biol 2214: Comparative Animal and Human Physiology - Spring

☐ **5. Research in Ecology, Evolution, and Marine Biology**

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

☐ **6. Introductory Chemistry Requirement**

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

☐ **7. Math (1300 or above) OR Psychology 2520**

☐☐ **8. 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 2481: Forest Ecology and Conservation - Fall

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

Biol 3270: Phylogenetics

Biol 3280: Plant Responses to the Environment – Fall

Biol 3307: Evolutionary Developmental Biology - Spring

Biol 3309: Ecotoxicology

Biol 3312: Human Parasitic World

Biol 3313: Microbiome Science

Biol 3317: Molecular Evolution– Fall

Biol 3554: Biomechanics– Spring

Biol 3558: Ornithology

Biol 3581: Ecological Genetics – Spring

Biol 2557: Immunology – Spring

Biol 3353: Animal Behavior – Spring

Biol 3310: Advanced Evolution

Biol 3320: Natural History of Maine

☐☐ **9. Natural and Computational Science: Two additional Courses in Natural and Computational Science**

Any course above 1100 in Biology, Chemistry, EOS, Physics, or CSCI

Or also:

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