



University of California, Santa Barbara  
Program Learning Outcomes

## M.A. in Ecology, Evolution, and Marine Biology

### ***Upon graduation with a MA in Ecology, Evolution, and Marine Biology:***

#### ***Core Knowledge and Breadth Requirements in EEMB***

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- Students will be capable of demonstrating broad knowledge of the subfields within EEMB.
- Students will have a deep understanding of one subfield within EEMB, i.e., community ecology, evolution, ecological physiology, biological oceanography, or ecosystem processes.
- Students will be able to review and judge the quality, relevance, and originality of scientific papers in their areas of specialization.

#### ***Analytical Tools and Research Methodology***

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- Students will be capable of generating hypotheses, testing them, analyzing the final data and synthesizing the results into a paper for a peer-reviewed scientific journal.
- Students will have a suite of analytical abilities and a variety of research methods sufficient to test hypotheses and analyze results in their field.
- Students will use these tools to be able to work independently.

#### ***Science Communication***

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- *Students will be capable of communicating the results of their original research with scientific peers in their core disciplines.*
- *Students will have the ability to write effectively at the levels found in relevant peer-reviewed journals, conference proceedings, and other written formats.*