

**Marine Biology MS**  
**2016-2017 Student Learning Outcomes**

<b>Outcome</b>	<b>Assessment Methods</b>
<p>1 <i>Acquire foundational knowledge in marine biology and related sciences. Program students obtain foundational knowledge of 1) the biology of marine organisms (across all levels of biological organization and taxonomic diversity), 2) the ocean environment, and 3) the practice of science. (See attached curriculum map)</i></p>	<p><i>Core course final exams</i></p> <p><i>Oral comprehensive exam evaluated with rubric</i></p>
<p>2 <i>Students demonstrate ability to clearly and effectively communicate scientific results. New knowledge acquired through the scientific process has little meaning without effective communication to other scientists, resource managers and other decision-makers, and the public. (See attached curriculum map)</i></p>	<p><i>Scientific poster evaluated with rubric</i></p> <p><i>Oral presentation evaluated with rubric</i></p>
<p>3 <i>All students must conduct a marine biology research project, and orally defend their work and submit a written thesis. Both steps must be approved by their thesis committee. Publication in the peer-reviewed literature is one measure of the quality of the thesis research. Students in the program should conduct important and novel research, striving to contribute to the foundation of knowledge through publication in peer-reviewed journals.</i></p>	<p><i>Rate of submitted thesis proposals</i></p> <p><i>Rate of publication of thesis research</i></p>