To be advanced to candidacy, the student must have:

1. attained classified standing;
2. selected a thesis problem and a thesis advisory committee. The thesis committee will be composed of at least three members, including one faculty member from MLML (who is ordinarily the thesis advisor) and, at the discretion of the home campus, a representative from that campus. The other member or members of the thesis committee may also be from MLML, or from the home campus, or elsewhere, with the approval of the thesis advisor; and
3. taken the Writing Placement for Graduate Students (WPG) or taken a Graduate Writing Intensive (GWI) course in their discipline within the first two semesters of coursework at California State University, Sacramento or secured approval for a WPG waiver.

Notes:
1. The student must have submitted a thesis approved by the thesis advisory committee. The thesis must conform to the rules set forth by the home campus.
2. The student must successfully give an oral thesis defense in the form of a seminar open to the general public. The thesis advisory committee must be present, may require further oral questioning after the seminar, and will evaluate the success of the presentation.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 103</td>
<td>Marine Ecology</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 141</td>
<td>Geological Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 142</td>
<td>Physical Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 143</td>
<td>Chemical Oceanography</td>
<td>4</td>
</tr>
<tr>
<td>MSCI 144</td>
<td>Biological Oceanography</td>
<td>4</td>
</tr>
</tbody>
</table>

MSCI 104 is a prerequisite and cannot be counted toward the 30-unit degree requirement; students who do not receive a GPA of 3.0 or better in the courses listed above taken at MLML, or who wish to substitute equivalent courses taken elsewhere regardless of the grade(s) received, must pass a written qualifying examination given by the faculty at MLML. Contact MLML for further information.

MSCI 201 Library Research Methods
MSCI 202 Oceanographic Instrumentation
MSCI 211 Ecology of Marine Birds and Mammals
MSCI 212 Advanced Topics in Marine Vertebrates
MSCI 213 Marine Botany
MSCI 214 Advanced Topics in Marine Invertebrates
MSCI 215 Biology Of Seaweeds
MSCI 216 Advanced Biological Oceanography
MSCI 217 Marine Benthic Habitat Techniques
MSCI 218 Marine Geochemistry
MSCI 219 Ocean Circulation and Mixing
MSCI 220 Population Biology
MSCI 221 Subtidal Ecology
MSCI 222 Scientific Writing

Minimum Units and Grade Requirement for the Degree

Units required for the MS: 31-34
Minimum Cumulative GPA: 3.0

A student becomes eligible for the MS degree in Marine Science after satisfying the following requirements:

1. the student has been advanced to candidacy;
2. the student has satisfied MLML's requirements for the degree; and
3. the student has completed the following curriculum requirements.

Advancement to Candidacy

To be advanced to candidacy, the student must have:
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 298</td>
<td>Research in the Marine Sciences</td>
<td>31-34</td>
</tr>
</tbody>
</table>

1. Other electives, including courses from home campus departments, may be included after consultation with the thesis advisory committee. See course descriptions for prerequisites.