Department of Biological Sciences
Bachelor of Science
Major in Biology - Marine Biology Curriculum

1. Marine Biology and Oceanography are graduate programs at most universities. It is possible for a student to earn a bachelor's degree at Emporia State University and then transfer to an institution that has a graduate curriculum in marine science and not be at a disadvantage by graduating from an inland school. If you intend to obtain a degree from ESU before transferring to another institution, it is recommended that you follow the B.S. with a major in biology and a concentration in Ecology and Biodiversity.

2. Our undergraduates have the chance to take two introductory level courses in marine science. It is beneficial to attend a marine station during the summer months. There is no better way to determine whether your interest in marine biology is real than to gain actual experience in this field of study.

3. In most instances, schools offering graduate programs in marine biology expect entering students to have a broad background in biology, the physical sciences, and mathematics. During your junior year it is recommended that you establish direct communication with the schools of your choice concerning specific requirements and procedures for entering their graduate programs.

4. Job opportunities are competitive; some information concerning careers and employment is available on the Biology Department website. biology.emporia.edu

5. The following courses, or their equivalent, are often required by schools offering programs in marine biology.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GB 140-141</td>
<td>Principles of Biology and Lab</td>
<td>4</td>
</tr>
<tr>
<td>BO 212-213</td>
<td>Biology of Plants and Lab</td>
<td>4</td>
</tr>
<tr>
<td>ZO 214-215</td>
<td>Biology of Animals and Lab</td>
<td>4</td>
</tr>
<tr>
<td>MC 316-317</td>
<td>Microbiology and Lab</td>
<td>4</td>
</tr>
<tr>
<td>ZO 546-547</td>
<td>Invertebrate Zoology and Lab</td>
<td>4</td>
</tr>
<tr>
<td>ZO 556-557</td>
<td>Natural History of Vertebrates and Lab</td>
<td>4</td>
</tr>
<tr>
<td>EB 480</td>
<td>Principles of Ecology</td>
<td>3</td>
</tr>
<tr>
<td>EB 481</td>
<td>Field Ecology</td>
<td>2</td>
</tr>
<tr>
<td>CH 123-124</td>
<td>Chemistry I and Lab</td>
<td>5</td>
</tr>
<tr>
<td>CH 126-127</td>
<td>Chemistry II and Lab</td>
<td>5</td>
</tr>
<tr>
<td>CH 370-371</td>
<td>General Organic Chemistry and Lab</td>
<td>5</td>
</tr>
<tr>
<td>PH 140-141</td>
<td>College Physics</td>
<td>5</td>
</tr>
<tr>
<td>MA 165</td>
<td>Basic Calculus (or MA 161)</td>
<td>5</td>
</tr>
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</table>

Course work in computer programming, physiology, and earth science is usually desirable, since they are often a requirement for a biology major at institutions offering a program in marine biology. Some of the courses taken at a marine field station may substitute for certain courses in the above list.

(OVER)
<table>
<thead>
<tr>
<th>MARINE SCIENCE PROGRAMS</th>
</tr>
</thead>
</table>
| **Wrigley Marine Science Center**  
University of Southern California  
AHF 232  
Los Angeles, CA 90089-0371  
http://wrigley.usc.edu | **Scripps Institute of Oceanography**  
Univ. of California, San Diego  
9500 Gilman Dr., Dept. 0219  
San Diego, CA 92093-0219  
[www.sio.ucsd.edu](http://www.sio.ucsd.edu/) | **Dauphin Island Sea Lab**  
101 Bienville Blvd.  
Dauphin Island, AL 36528  
[www.disl.org](http://www.disl.org) |
| **Duke University Marine Laboratory**  
Nicholas School of the Environment  
135 Duke Marine Lab Rd.  
Beaufort, NC 28516-9521  
[www.nicholas.duke.edu/marinelabmarine.html](http://www.nicholas.duke.edu/marinelabmarine.html) | **School of Oceanography**  
Box 357940  
University of Washington  
Seattle, WA 98195-7940 | **Center for Marine Science**  
UNC - Wilmington  
5001 Masonboro Loop Rd.  
One Marvin K. Moss Ln.  
Wilmington, NC 28409  
[www.ocean.washington.edu/](http://www.ocean.washington.edu/)  
[www2.uncwil.edu/cmsr](http://www2.uncwil.edu/cmsr) |
| **Hopkins Marine Station of Stanford Univ.**  
Oceanview Blvd.  
Pacific Grove, CA 93950-3094  
329OSB, West Call Street  
Florida State University  
Tallahassee, FL 32306-4320  
ocean.fsu.edu/ | **Marine Science Program**  
University of North Carolina  
12-7 Venable Hall, CB #3300  
Chapel Hill, NC 27599-3300  
[www.marine.unc.edu](http://www.marine.unc.edu) |
| **LUMCON - LA Univ. Marine Consortium**  
8124 Hwy 56  
Chauvin, LA 70344  
[www.lumcon.edu/](http://www.lumcon.edu/) | **Marine Science Program**  
Univ. of South Carolina  
Columbia, SC 29208  
[www.msc.sc.edu/](http://www.msc.sc.edu/) | **Dept. of Marine Science**  
Univ. of Texas at Austin  
Marine Science Institute  
750 Channel View Dr.  
Port Aransas, TX 78373-5015  
[www.utmsi.zo.utexas.edu/](http://www.utmsi.zo.utexas.edu/) |
| **Oregon Institute of Marine Biology**  
PO Box 5389, 4619 Boat Basin Dr.  
Charleston, OR 97420  
darkwing.uoregon.edu/~oimb/ | **Marine Science Center**  
Northeastern University  
East Point, Nahant, MA 01908  
[www.dac.neu.edu/msc/](http://www.dac.neu.edu/msc/) | **Hawaii Institute of Marine Biology**  
PO Box 1346  
Kaneʻohe, Hawaii 96744  
[www.hawaii.edu/HIMB](http://www.hawaii.edu/HIMB) |
| **Woods Hole Marine Biological Laboratory**  
7 MBL Street  
Woods Hole, MA 02543  
[www.mbl.edu](http://www.mbl.edu) | **Florida Institute of Technology**  
College of Engineering  
Div. of Marine & Environment Systems  
150 West University Blvd.  
Melbourne, FL 32901-6975  
http://coe.fit.edu/dones/ | **Biology Web Site:**  http://biology.emporia.edu |
| **Shoals Marine Laboratory**  
GH 14 Stimson Hall  
Cornell University  
Ithaca, NY 14883  
[www.sml.cornell.edu](http://www.sml.cornell.edu) | **Dept. of Marine Science**  
University of South Florida  
140 7th Ave. South  
St. Petersburg, FL 33701 | |

(Updated August 2010)