UNDERGRADUATE MINOR PROGRAMS

A minor is a concentration of courses that focus on a single area or an interdisciplinary perspective as developed by the department or program that offers the minor. The department or program offering the minor is responsible for setting enrollment limits and deciding which courses are used to meet the minor. Course work consists of 15–18 hours with a minimum of 6 in residence at the 300–400 level.

If a minor is offered by a department or academic unit, then the minor is considered to be available to all students as resources permit. The academic advisor in the major-granting department will add the minor for the student on SIMS. In some cases, approval by the advisor of the minor-granting department is required before the minor is added by the advisor in the student’s major. Substitutions in a minor can be initiated by either the major- or minor-granting department, but must be approved by both departments. Students must declare a minor no later than the date on which they apply for graduation. A maximum of two minors can be completed by students. A minor is displayed on the transcript after graduation but not displayed on the diploma.

Minor in Diving Technology and Methods

Students in other majors may establish a minor field of study in Diving Technology and Methods through completing 16 hours from the following courses. A minimum of 6 hours must be completed at the 300- to 400- level:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MAST 110/KINE 199</td>
<td>Scuba I</td>
</tr>
<tr>
<td>MAST 120/KINE 199</td>
<td>Scuba II</td>
</tr>
<tr>
<td>MAST 321</td>
<td>Industrial Diving Orientation</td>
</tr>
<tr>
<td>MAST 330</td>
<td>Rescue Diving</td>
</tr>
<tr>
<td>MARB 340</td>
<td>Tropical Marine Ecology</td>
</tr>
<tr>
<td>MARB 345</td>
<td>Introduction to Scientific Diving</td>
</tr>
<tr>
<td>MARB 350</td>
<td>Methods in Research Diving</td>
</tr>
<tr>
<td>MAST 357</td>
<td>Dive Leadership - Divemaster</td>
</tr>
<tr>
<td>MAST 457</td>
<td>Dive Leadership - Dive Instructor</td>
</tr>
</tbody>
</table>

In addition to the course requirements listed above, students:

- Must complete a medical statement showing no contradictions to diving or have a recreational scuba diver’s physical examination.
- Must have Divers Alert Network (DAN) insurance (or equivalent).
- Must maintain good health and fitness appropriate to the level of diving required. Adverse behaviors that put the diver or other participants at risk such as the use of alcohol or certain medicines may require the diver to be removed from the program.

Minor in Marine Biology

Students in other majors may establish a minor field of study in Marine Biology through completing 16 credits of MARB course selected in consultation with a Marine Biology advisor, choosing from the courses listed below. The student must have earned a C or better in BIOL 111 and BIOL 112.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>MARB 301</td>
<td>Genetics</td>
</tr>
<tr>
<td>MARB 311</td>
<td>Ichthyology</td>
</tr>
<tr>
<td>MARB 315</td>
<td>Natural History of Vertebrates</td>
</tr>
<tr>
<td>MARB 360</td>
<td>Marine Conservation Biology</td>
</tr>
<tr>
<td>MARB 400</td>
<td>Biology of Marine Mammals</td>
</tr>
<tr>
<td>MARB 408</td>
<td>Marine Botany</td>
</tr>
<tr>
<td>or MARB 430</td>
<td>Coastal Plant Ecology</td>
</tr>
<tr>
<td>MARB 425</td>
<td>Marine Ecology</td>
</tr>
<tr>
<td>MARB 435</td>
<td>Marine Invertebrate Zoology</td>
</tr>
</tbody>
</table>

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Minor in Maritime Administration

Students in other majors may establish a minor field of study in Maritime Administration through completing 18 credits in the following courses. A minimum GPR of 2.25 for the 18 credit hours is required.

Required Courses (total 12 required credits):
- ACCT 229 Introduction to Accounting
- MARA 301 Ocean Transportation I
- MARA 363 Managerial Process
- MARA 416 Port Operations, Administration and Economics

Elective Courses (total 6 required credits):
- MARA 304 Ocean Transportation II
- MARA 342 Managerial Maritime Finance
- MARA 401 Brokerage and Chartering
- MARA 402 Inland Waterways
- MARA 421 Admiralty Law
- MARA 424 Economics of Transportation
- MARA 435 Labor Law
- MARA 440 Global Economy and Enterprise Management
- MARA 450 Maritime Supply Chain Management
- MARA 460 Management Systems and Control
- MARA 470 Environmental Law
- MARA 484 Management Internship
- MARA 485 Directed Studies
- MARA 489 Special Topics

Substitutions may be authorized by the Head, Department of Maritime Administration.

Minor in Ocean and Coastal Resources

Students in other majors may establish a minor field of study in Ocean and Coastal Resources through the completion of at least 16 hours of the following courses:

Required Courses (total 7 required credits):
- MARS 280 Coastal and Ocean Resources
- GEOL 104 Physical Geology
- or OCNG 251/252 Oceanography/Oceanography Laboratory

Select 3-6 hours from the following courses:
- MARS 410 Introduction to Physical Oceanography
- MARS 430 Introduction to Geological Oceanography
- MARS 431 Geological Oceanography - Earth’s Climate
- MARS 440 Introduction to Chemical Oceanography
- OCNG 420 Introduction to Biological Oceanography

Select 3-7 hours from the following courses:
- MARS 370 Coastal Processes
- MARS 423 Ecological Economics
- MARS 425/426 Coastal Wetlands Management (and Lab)
- MARS 432 Peak Oil, Global Warming and Resource Scarcity
- MARA 470 Environmental Law

Minors offered at the TAMUG Campus through TAMU-College Station academic departments

Students may elect to earn a number of majors that are taught at the Galveston campus through TAMU-College Station academic departments. A complete list of minors is at the website: http://www.tamug.edu/academics/Minors.html.