

COLLEGE OF ARTS AND SCIENCES
THE OHIO STATE UNIVERSITY

TYPE 1B & 3 MARINE SCIENCE CERTIFICATE (MARINE-CT)

Coordinating Advisor: Professor Matthew Saltzman,
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The 12-13.5 credit hour Marine Science Certificate will provide students with a competitive advantage in pursuing careers in marine science in the private and public sectors or pursuing entrance into a graduate degree program in marine science. The certificate is designed to enhance both critical thinking and the technical skills in marine science.

Required core course (3 credits):

- **EARTHSC 5206:** Advanced Oceanography (3)

Elective courses (9 credits):

In addition, students will select from the courses listed below.

- **EARTHSC 4450:** Water, Ice and Energy in the Earth System (3)
- **EARTHSC 5622:** Stable Isotope Biogeochemistry (3)
- **EARTHSC 5602.02:** Carbonate Depositional Systems (2)
- **EARTHSC 5780:** Reflection Seismology (4)
- **EARTHSC 5242:** Natural History of Bahamas (4)
- **GEOG 5900:** Climatology (3)
- **EEOB 5410:** Ocean Ecology (1.5)
- **EEOB 5430:** Fish Ecology (3)
- **EEOB 4230:** Focused study on ecology and evolution of invertebrates (2)
- **ENR 5614:** Marine and aquatic education () **Of these electives, no more than one of:**
- **GEOG 5210:** Fundamentals of Geographic Information Systems (3)
- **EARTHSC 5310:** Remote Sensing in the Earth Sciences (3)
- **CIVILEN 5001:** Introduction to Geographic Information Systems (4)

Marine Geology Certificate program guidelines

The following guidelines govern the Marine Geology Certificate. Required for certificate:

Credit hours required: 12-13.5 credit hours.

Overlap with a major

- The certificate must be in a different subject than the major.
- Max 50% overlap with degree program (i.e. major, minor, other certificate, or GE)

Grades required

- Minimum C- for a course to be listed on the certificate.
- Minimum 2.00 cumulative point-hour ratio required for the certificate.

X193 credits: Not permitted.

Certificate Completion: If the certificate is not complete on the DAR, the student must consult with the College of Arts and Sciences Coordinating Advisor.

Filing the certificate program form: The certificate program form must be filed at least by the time the graduation application is submitted to a college/school counselor.

Changing the certificate: Once the certificate program is filed in the college office, any changes must be approved by the Col-lege of Arts and Sciences Coordinating Advisor.

School of Earth Sciences undergraduate advisor :
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