

COLLEGE OF ARTS AND SCIENCES
THE OHIO STATE UNIVERSITY

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

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 (3)
 - **EARTHSC 5780:** Reflection Seismology (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

Credit hours required: 12-13.5 credit hours.

Overlap with courses in a degree

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

X193 credits: Not permitted.

Certificate Completion: If the certificate is not complete on the DAR, the student must consult with the Coordinating Advisor.

Consult with Coordinating Advisor

- For filing deadlines.
- For changes or exceptions to a certificate plan.

Undergraduate certificate program:

Coordinating Advisor: Professor Ashley Griffith, 381 Mendenhall Labs, Columbus, OH 43210; griffith.233@osu.edu

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

Graduate certificate program:

Coordinating Advisor: Professor Steve Lower, 084 Orton Hall, lower.9@osu.edu; 614-292-1571

- Course selections must be numbered 4000+ outside the student's home unit and 5000+ within the home unit.
- Minimum 3.00 cumulative point-hour ratio required for the certificate
- Minimum C- for a course to be listed on the certificate.

College of Arts and Sciences
Curriculum and Assessment Services
154 Denney Hall, 164 Annie & John Glenn Ave.
<http://artsandsciences.osu.edu>
CAA approved 6-1-2020