COLLEGE OF ARTS AND SCIENCES THE OHIO STATE UNIVERSITY

Type 1B & 3 Marine Science Certificate (Marine-CT)

Course	Credit Hours	Semester Completed	Overlap with other major, minor, other certificate program or GE?
	F	Required	
EARTHSC 5206	3		
	Electives (mini	mum 9 credit hours)	
otal Credit hours:		(minimum 12)	
Credits double counted w	• • •	. • .	
		(maximum 50%)	

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
- EARTHSC 5310: Remote Sensing in the Earth Sciences (3)
- CIVILEN 5001: Introduction to Geographic Information Systems (4)