

# Marine Science (Minor)

To see more about what you will learn in this program, visit the Learning Outcomes website (<https://apps.oirp.ncsu.edu/pgas/>)!

The Department of Marine, Earth and Atmospheric Sciences offers a minor in Marine Science to majors in any field except marine science or natural resources with a concentration in marine and coastal resources. The minor provides a means of recognition for students who desire a deeper understanding of the world's ocean.

## Requirements for Admission and Completion of the Minor

- Students must have completed MEA 200 Introduction to Oceanography with a letter grade of C or better and have a GPA of 2.5 or above to be admitted into the minor.
- For completion, students must complete MEA 200 Introduction to Oceanography, MEA 210 Oceanography Lab and MEA 250 Introduction to Coastal Environments and at least 9 additional credit hours from the list of minor elective courses. All course work must be letter-graded and completed with a C or better.

## Admissions

Students must have completed MEA 200 Introduction to Oceanography with a letter grade of C or better and have a GPA of 2.5 or above to be admitted into the minor. To be admitted to the program, a student must have a GPA of at least 2.0. Application for admission to any University minor program is now available via MyPack Portal. Admission will be based upon the student's academic record, and in most cases no longer requires departmental review. Go to Add a Minor (<https://studentservices.ncsu.edu/your-degree/coda-home/add-a-minor/>) to apply.

## Contact Person

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**SIS Code: 17MRM**

## Plan Requirements

Code	Title	Hours	Counts towards
<b>Required Courses</b>			
MEA 200	Introduction to Oceanography	3	
MEA 210	Oceanography Lab	1	
MEA 250	Introduction to Coastal Environments	3	
<b>Elective Courses</b>			
Select 9 credits from the following:		9	
MEA 220	Marine Biology		
MEA 251	Introduction to Coastal Environments Laboratory		

MEA 252	Biology of Marine Mammals (Semester @ CMAST course)
MEA 323	Geochemistry of Natural Waters
MEA 350	Marine Conservation Biology (Semester @ CMAST course)
MEA 411	Marine Sediment Transport
MEA 449	Principles of Biological Oceanography
MEA 454	Marine Physical-Biological Interactions
MEA 459	Field Investigation of Coastal Processes
MEA 460	Principles of Physical Oceanography
MEA 462	Observational Methods and Data Analysis in Marine Physics
MEA 463	Fluid Physics
MEA 464	Ocean Circulation Systems
MEA 467	Marine Meteorology
MEA 469	Ecology of coastal Resources
MEA 470	Introduction to Geophysics
MEA 471	Exploration and Engineering Geophysics
MEA 473	Principles of Chemical Oceanography
MEA 476	Worldwide River and Delta Systems: Their Evolution and Human Impacts
MEA 493	Special Topics in MEAS <sup>1</sup>
MEA 570	Geological Oceanography
<b>Total Hours</b>	<b>16</b>

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<sup>1</sup> Enrollment in special topics courses should be approved by the minor coordinator in advance to ensure they are appropriate and relevant to the minor.