

# Marine Sciences (Minor)

The Department of Marine, Earth and Atmospheric Sciences offers a minor in Marine Sciences 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 Completion of 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. 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
<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 468	Aquatic Microbiology
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

**Total Hours** **16**

<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.