

MARINE BIOLOGY AND COASTAL SCIENCES (M.S.)

For details about this program, including program description, admission requirements, and contact information, click here (<https://www.montclair.edu/graduate/programs-of-study/marine-biology-and-coastal-sciences-ms/>).

Program Requirements

Code	Title	Credits
Required Courses		
AQUA 551	Advanced Aquatic Biological Processes ¹	3
BIOL 570	Ecology ¹	3
EAES 505	Environmental Geoscience ¹	3
or EAES 526	Geochemistry	
EAES 533	Water Resource Management	3
or EAES 560	Environmental Law	
BIOL 592	Graduate Colloquium	1
or EAES 790	Colloquium in Environmental Management	
Graduate Electives		
Select 9 credits from the list below.		9
Culminating Activity		
<i>Graduate Research</i>		
AQUA 599	Graduate Research in Aquatic and Coastal Sciences	4
<i>Graduate Thesis</i>		
AQUA 698	Master's Thesis	6
Submit the completed Thesis original and one copy to the Graduate Office. See Thesis Guidelines for details.		
Total Credits		32

¹ Students in the combined program complete this course as part of the undergraduate degree program.

Electives

Code	Title	Credits
BIOL 515	Population Genetics	3
BIOL 520	Plant Physiology	3
BIOL 529	Advanced Herpetology	4
BIOL 532	Advanced Entomology	3
BIOL 535	Advanced Community Ecology	3
BIOL 544	Advanced Comparative Animal Physiology	3
BIOL 554	Microbial Physiology	3
BIOL 571	Physiological Plant Ecology	4
BIOL 572	Wetland Ecology	4
BIOL 573	Shoreline Ecology	4
BIOL 574	Behavioral Ecology	3
BIOL 576	Biology of Extreme Habitats	3
BIOL 578	Urban Ecology	3
BIOL 579	Physiological Ecology of Animals	3
BIOL 580	Evolutionary Mechanisms	3
BIOL 586	Special Topics in Advanced Biology	3-4

BIOL 588	Special Topics in Advanced Physiology	3-4
BIOL 589	Special Topics in Advanced Ecology	3-4
BIOL 593	Molecular Ecology	3
BIOL 595	Conservation Biology: The Preservation of Biological Diversity	3
EAES 510	Geographic Information Systems	3
EAES 511	Fundamentals of Remote Sensing of the Environment	3
EAES 527	Organic Geochemistry	3
EAES 532	Applied Groundwater Modeling	4
EAES 545	Paleoecology	3
EAES 550	Advanced Marine Geology	3
EAES 592	Pro Seminar	1-4