

Gloucester County College
MARINE SCIENCE
Associate in Science (A.S.) – Transfer
Program Requirements

The Associate Degree in Marine Science will provide students with the foundational study of physical, biological, and chemical sciences as well as an understanding of the marine environment and its interactions with the earth, the biosphere and the atmosphere. A major in marine science provides students with a broad curriculum in the sciences as well as an understanding of marine life and their adaptations. Students who have completed the program will be able to:

- Apply scientific foundation to support upper level study in marine science as well as related disciplines.
- Define marine ecosystems and the diversity of marine organisms.
- Integrate learned material with current research to formulate ideas concerning a sustainable future.

Required Core and Elective Courses

<u>Communications</u>	<u>Credits</u>
COM 101 English Composition I	3
COM 102 English Composition II	3
 <u>Humanities</u>	
PHI 104 Ethics	3
HIS 101 History of Western Civilization I	3
 <u>Social Science</u>	
___ ___ Social Science Elective	3
___ ___ Social Science Elective	3
HPE ___ Health and Physical Education Elective	1-3
 <u>Mathematics</u>	
MAT 103 Statistics	3
MAT 108 Calculus I	4
 <u>Science</u>	
BIO 101 General Biology I	4
BIO 102 General Biology II	4
BIO 112 Introduction to Marine Biology	4
BIO 209 Principles of Ecology	4
CHM 111 General Chemistry I	4
CHM 112 General Chemistry II	4
BIO 2___ Biology Elective (200 level) or	
CHM 201 Organic Chemistry I	4
PHY 103 General Physics I	4
PHY 104 General Physics II	4
 <u>TOTAL MINIMUM CREDITS:</u> 62	

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Four Semester Sequence of Courses

FIRST YEAR - Fall Semester

			<u>Credits</u>
_____	COM 101	English Composition I	3
_____	CHM 111	General Chemistry I	4
_____	BIO 101	General Biology I	4
_____	BIO 112	Introduction to Marine Biology	4
			15

Spring Semester

_____	COM 102	English Composition II	3
_____	CHM 112	General Chemistry II	4
_____	BIO 102	General Biology II	4
_____	HPE _____	Health and Physical Education Elective	1-3
			12-14

SECOND YEAR - Fall Semester

_____	BIO 209	Principles of Ecology	4
_____	PHY 103	General Physics I	4
_____	MAT 103	Statistics	3
_____	PHI 104	Ethics	3
_____	_____	Social Science Elective	3
			17

Spring Semester

_____	PHY 104	General Physics II	4
_____	MAT 108	Calculus I	4
_____	BIO 2__	Biology Elective (200 level) * or	
_____	CHM 201	Organic Chemistry I	4
_____	HIS 101	History of Western Civilization I	3
_____	_____	Social Science Elective	3
			18

TOTAL MINIMUM CREDITS: 62

* Check with transfer school marine science program to determine elective.