

## Rowan College of South Jersey

### **MARINE SCIENCE** **Associate in Science (A.S.) –Transfer**

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.

<b><u>FIRST YEAR- Fall Semester</u></b>			<b><u>Credits</u></b>
_____	ENG 101	English Composition I	3
_____	CHM 111	General Chemistry I	4
_____	BIO 101	General Biology I	4
_____	BIO 112	Introduction to Marine Biology	<u>4</u>
			<b>15</b>
<b><u>Spring Semester</u></b>			
_____	ENG 102	English Composition II	3
_____	CHM 112	General Chemistry II	4
_____	BIO 102	General Biology II	4
_____	PHI 104	Ethics	3
_____	HPE _____	Health/PE elective	<u>2-3</u>
			<b>16-17</b>
<b><u>SECOND YEAR- Fall Semester</u></b>			
_____	BIO 212	Wetlands Field Ecology	4
_____	PHY 103	General Physics I	4
_____	MAT 103	Statistics	or
_____	MAT 107	Pre-calculus and Math Analysis	3-4
_____	_____	Social Science Elective	<u>3</u>
			<b>14-15</b>
<b><u>Spring Semester</u></b>			
_____	PHY 104	General Physics II	4
_____	MAT 108	Calculus I	4
_____	BIO 2__	200 level BIO elective** <i>or</i>	
_____	CHM 201	Organic Chemistry I **	4
_____	_____	Social Science or Humanities Elective	<u>3</u>
			<b>15</b>
<b><u>TOTAL MINIMUM CREDITS:</u></b>			<b>60</b>

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

**MARINE SCIENCE**  
**Associate in Science (A.S.) –Transfer**  
**REQUIRED CORE AND ELECTIVE COURSES**

<b><u>Communications</u></b>		<b><u>Credits</u></b>
English Composition I	ENG 101	3
English Composition II	ENG 102	3
<b><u>Humanities</u></b>		
Ethics	PHI 104	3
<b><u>Social Science</u></b>		
Humanities or Social Science	_____	3
Social Science Elective	_____	3
<b><u>Health and PE</u></b>		
Physical Education Elective	_____	2-3
<b><u>Mathematics</u></b>		
Calculus I	MAT 108	4
Statistics or Pre-calculus	MAT 103 or MAT 107	3-4
<b><u>Science</u></b>		
General Chemistry I	CHM 111	4
General Chemistry II	CHM 112	4
General Biology I	BIO 101	4
General Biology II	BIO 102	4
Intro to Marine Biology	BIO 112	4
Wetlands Ecology	BIO 212	4
General Physics I	PHY 103	4
General Physics II	PHY 104	4
Biology elective or Organic Chemistry I	BIO 2__ or CHM 201	4
		4
<b><u>TOTAL MINIMUM CREDITS:</u></b>		<b>60</b>