

# Applied Ocean Science & Technology Associate of Science Degree Requirements Checklist

28 - 30 required units towards the 60 unit degree (Effective Fall 2023)

Applied Ocean Science & Technology Required Courses: *Need to complete each of the following courses for a total of 26 units in this section*

<input type="checkbox"/> MRSC A100 Oceanography / MRSC A100H Oceanography Honors	3.0
<input type="checkbox"/> MRSC A100L Oceanography Lab / MRSC A100H Ocean Lab Honors	1.0
<input type="checkbox"/> MARA A152 Boat Handling & Seamanship	3.0
<input type="checkbox"/> MARA A153 Marine Basic Safety Training	4.0
<input type="checkbox"/> MRSC A190 Marine Research & Monitoring Techniques	3.0
<input type="checkbox"/> MARA A150 Coastal Navigation	3.0
<input type="checkbox"/> MRSC A120 Marine Aquarium Science	2.0
<input type="checkbox"/> MRSC A140 Aquarium Life Support Operation & Maintenance	2.0
<input type="checkbox"/> MARA A156 Maritime Environment	3.0
<input type="checkbox"/> GEOG A190 Digital Mapping: Introduction to GIS	3.0

Applied Ocean Science & Technology Restricted Elective Courses: *Complete at least 2 units from the following electives to emphasize a particular technical background.*

Marine Conservation & Management emphasis:	
<input type="checkbox"/> ESEC A210 Wetlands Ecology & Management	3.0
<input type="checkbox"/> MRSC A195 Marine Policy & Conservation	3.0
<input type="checkbox"/> ITRN A392 Internship Academy-Level	1.0 - 4.0
Professional Mariners emphasis:	
<input type="checkbox"/> MARA A154 Yachtkeeping & Engine Maintenance	2.0
<input type="checkbox"/> MARA A200 Professional Mariner Internship	2.0
<input type="checkbox"/> MARA A201 Professional Mariner Internship Lecture	1.0
<input type="checkbox"/> EMS A100 Emergency Medical Responder	4.0
<input type="checkbox"/> KIN A232 Swimming - Level 2	2.0
Marine Tech emphasis:	
<input type="checkbox"/> ELEC A100 Electronic Problem Solving	3.0
<input type="checkbox"/> ELEC A121 Robotics 1- Mechanics & Design	3.0
<input type="checkbox"/> ELEC A140 Technical Electronics	3.0
<input type="checkbox"/> CS A131 Python Programming I	4.0
<input type="checkbox"/> ENGR A110 Introduction to Engineering & Design	3.0
<input type="checkbox"/> ENGR A220 Programming and Problem-Solving in MATLAB	4.0
<input type="checkbox"/> WELD A100 Arc & Oxy-acetylene Welding	3.0
<input type="checkbox"/> HVAC A100 Air Conditioning & Refrigeration Principles	3.0

**Total major units (as part of the 60 units Associates degree) 28 - 30**