

# MARINE CONSERVATION & MONITORING, CERTIFICATE OF ACHIEVEMENT

---

**Banner Code:** 1\_CM\_MCM  
**Not Financial Aid Eligible**

The Marine Conservation and Monitoring certificate is designed to provide students with experience utilizing a variety of different research equipment, field-based sampling techniques, and analytical tools that can be used to collect, analyze, and evaluate data. Particular attention is given to the collection of field data and how conclusions drawn from that data can be used to inform conservation-based policies.

## Program Outcomes

1. Demonstrate a basic understanding of data collection methods and analysis as well as the role that monitoring programs contribute to our understanding of marine characteristics and processes.
2. Utilize scientific equipment and monitoring studies to illustrate the influence and interactions between the geologic, physical, chemical and biological processes and characteristics of the world ocean.
3. Demonstrate field-based foundational research and monitoring skills in the marine environment using specialized data collection equipment.

Review Graduation Requirements (<https://catalog.cccd.edu/orange-coast/graduation-requirements/certificates/#achievementtext>).

Course	Title	Units
Required Courses		
MRSC A190	Marine Research and Monitoring Techniques	3
MRSC A195	Marine Policy and Conservation	3
GEOG A190	Digital Mapping: Introduction to GIS	3
MARA A152	Boat Handling and Seamanship	3
Total Units		12