# Environmental Technology Certificate
# Coastal Zone Management



The Environmental Technology certificates are a collaborative partnership among Cape Cod Community College, Massachusetts Maritime Academy and University of Massachusetts - Dartmouth, for persons seeking to acquire skills and knowledge in eight environmental fields: Coastal Zone Management, Environmental Site Assessment, Geographic Information Systems, Photovoltaic Technology, Small Wind Technology, Solar Thermal Technology, Wastewater Management, and Water Supply. Students may need to travel to each of the three schools in order to complete all the courses in any certificate program. Students are encouraged to enroll in ENV260 Cooperative Work Experience/Internship.

| Course # | Course Title | Credits | Prerequisites | Semester Offered | Semester Taken | Grade Earned |
|---|---|---|---|---|---|---|
| ENV118 | Intro. to Environmental Science | 4 | (MAT020 or MAT025), ENL020 & ENL050 or satisfactory basic skills assessment scores | Fall, Spring, Summer | | |
| ENV125 | Coastal Ecology | 3 | None | Fall, Spring, Summer | | |
| ENV126 | Coastal and Shelf Oceanography | 3 | (MAT020 or MAT025) or satisfactory basic skills assessment score & ENV118 & ENV125 | Spring | | |
| ENV135 | Coastal Zone Management Laws and Regulations | 3 | ENV118 & ENV125 | Spring | | |
| ENV260 | Internship (recommended) | 3 | ENV118 or ENV170 & permission of instructor | Fall, Spring, Summer | | |
| Total Credits | | 13/16 | | | | |

## Overview
This certificate is designed to provide students with up-to-date knowledge of the principles and practices of coastal zone management. Students study coastal ecological systems and the impact man has on these systems, physical oceanography and coastal structures and their relationship to coastal resources. Laws and regulations covering the coastal zone are presented and related to the policies of government.

## Career Outlook
Completion of the Coastal Zone Management certificate prepares a student to obtain a position as a technician. The Department of Labor predicts that job opportunities are expected to increase 10 to 19 percent for all environmental technician occupations through the year 2022. In coastal areas, students may obtain positions that require knowledge of Federal, state and local laws and regulations, as well as soil and species identification. These technicians assist governmental, municipal, and non-profit coastal managers in the preservation and remediation at coastal and recreational areas.

This certificate is appropriate for students with advanced degrees that are looking for specific technical training.

## Program Outcomes
Upon completion of the Coastal Zone Management Certificate, students are able to:

- Work with public and private natural resource/conservation agencies, and environmental consulting companies.
- Conduct field examinations of various coastal ecosystems and understand the application of science in coastal zone management.
- Understand the laws and regulations and their relationship to policy making at the local, state, and federal level.