

SYLLABUS

- Course Title:** CZMT-0790 DE1/ MEVS-5100 DE1
Aspects of Marine Pollution
- Course Dates:** July 7, 2008 to September 19, 2008
- Instructor:** Donald S. McCorquodale Jr., PhD
- Email:** for general enquiries: de-marpol@mail.ocean.nova.edu
In-course students: please use the WebCT course e-mail Inbox.
- Course Materials:** No text required; suggested resources, article citations and websites provided with each unit.
- Course Goals:** The course deals with various forms of environmental pollution as they affect both the land and maritime environment. Sources, measurement and control of pollution in marine and coastal environments are discussed. It examines the fate of chemicals and their biological effects on marine organisms. It also examines environmental toxicology and the general mechanisms of transport and transformation of chemicals in water/sediment systems and within marine organisms.
- Prerequisites:** Students should have some familiarity with general chemistry and biology.

Course Learning Outcomes:

Upon completion of the course, students will have a clear understanding of:

- The nature of pollution and its possible sources.
- Analytical methods for measuring pollution..
- Pollution sources, relative risk, and potential effects on human and marine life, as relevant to coastal zone management.

Course Schedule

Unit One	Week One	Course Outline and Overview
Unit Two	Week Two	Environmental Monitoring
Unit Three	Week Three	Marine Pollution Indicators
Unit Four	Week Four	Harmful Algal Blooms
Unit Five	Week Five	Midterm Examination
Unit Six	Week Six	Chemical Analyses
Unit Seven	Week Seven	Metals Analyses
Unit Eight	Week Eight	Organic Analyses

Unit Nine	Week Nine	Practical Applications I
Unit Ten	Week Ten	Practical Applications II
Unit Eleven	Week Eleven	Final Examination

Course Evaluation

Final Grade Breakdown:

Midterm	20%
On-line Discussion	30%
Final Exam	50%

The mid-term examination will be multiple-choice format, and will be accessible directly from the course WebCT site during the sixth class week. The final examination will also be accessed directly from the course WebCT site during the final week of term. It will be essay format.

A discussion question will be provided at the start of each unit. Additional student-generated discussion related to the topic is encouraged. There are ten discussion units with possible individual score of 0 to 3, total of 30 maximum points. Postings after the week specific to that discussion will not be assessed.

Online Discussion Evaluation Criteria

Points	Frequency of Participation	Discussion & Feedback	Readings
3	Participates in discussion at least three times a week.	Excellent and thoughtful answers to the discussion exercises and questions; offers original analysis and comment; uses assigned readings text, as well as web-links to back up arguments. The student offers valuable feedback to help classmates better understand an issue.	Comments clearly demonstrate that the student has done the required readings, and that the student comprehends the course material and its significance.
2	Participates at least two times a week in lengthy discussions.	Good and thoughtful comments to the discussion exercises. Takes a solid interest in the comments and questions of fellow classmates.	Has done the majority of the readings. Provides competent summaries and analysis of the main issues in answers.
1	Sporadically participates.	Not good. Comments to the discussion	Actual knowledge of material is

		exercises marred by misunderstanding of key concepts. Rarely offers any comments on the course readings.	outweighed by improvised comments and remarks.
0	Rarely participates.	Poor. Rarely answers the discussion exercises on the web.	Little familiarity with the readings.