

Faculty Senate Curriculum Committee

APPROVAL FORM

Rev: 5/82

Proposal Title: Toxic Substances in the Marine Environment

Sponsor(s): Dr. C. Joseph Waring - for the Dept.: Physical Sciences

New Jersey Marine Sciences Consortium

Check one: Course Specialization Concentration Achievement Certificate

Workshop/Seminar

Minor Change Major Program

(please name: deletion or credit/title/catalog change)

Certification Program

Undergraduate / Graduate Credit Hours

Step 1 (Department)

Step 2 (Receipt)

Step 3 (Division CC)

Approved 1/20/84
date

SCC# 83-84-50

Reviewed 2/16/84
date

Not Approved

Proposal Received 2/11/84
date

Approved

J. Delaney
Dept. CC Chairperson

Not Approved

Reviewed 1-27-84
date

Comments:

W.C. Woods Jr.
Chairperson, Dept.

Shirley A. Oley
Chairperson, SCC

[Signature]
Chairperson, Div. Curr. Comm.

Step 4 (Academic Dean)

Comments:

Reviewed 2/17/84
date

[Signature]
Signature, Dean of Division

Step 5 (SCC)

Open Hearing Date: 4/6/84 Approved by Senate Curriculum Committee 4/6/84 (date)

Returned to sponsor(s) for the following reasons:

Step 6 (Faculty Senate)

Presented to Faculty Senate (date): 4/12/84

Approved
 Not Approved

Notification to Vice-President Academic Affairs (date): 4/16/84

Shirley A. Oley
Signature: SCC Chairperson

Step 7 (Vice-President for Academic Affairs)

Course received 4/25/04 (date)

Course approved Yes No

If no, reasons are as follows:

Student credit hours 1

Faculty load hours 1

Equalized credit hours 1

Official copy and approval sheet filed 4/25/04 (date)

Signature [Signature]
(Vice-President for Academic Affairs)

Registrar

Approved course description received _____ (date)

Hegis Taxonomy and Course Number assigned _____

Signature _____
(Registrar) (Date)

Notification forwarded: Senate Curriculum Committee Chairperson, Department Chairperson(s),
Academic Dean(s), Registrar, Sponsor(s)

NEW JERSEY MARINE SCIENCES CONSORTIUM

WORKSHOP/SEMINAR

SPECIAL TOPICS IN THE MARINE SCIENCES

400/500 Level Toxic Substances in the Marine Environment 1 Credit

I. Brief Description of the Course

The identification, monitoring, origin, movement and fate of toxic substances in the marine environment with emphasis on New Jersey's estuaries and oceanic environs. The impacts of contaminants on biota and man will be discussed.

Prerequisites: An interest in the marine sciences and the marine environment.

II. General Aim of the Course

To acquaint participants with the types, sources, and effects of pollutants in the marine environment.

III. Specific Objectives of the Course

To understand the complexity of pollution problems in the marine environment. To familiarize participants with the pollutants of concern in marine environments, their sources, their effects, how they are monitored and what scientific efforts are underway to address marine pollution problems in and around New Jersey.

IV. Content and Scope of the Course

- A. Types of Pollutants in the Marine Environment
- B. Sources of Pollutants in the Marine Environment
- C. Effects of Pollutants in the Marine Environment
- D. Ocean Dumping Activities in the New York Bight

V. Procedures, Techniques and Methods

Classroom presentations and discussion; field trip activities; hands-on field testing; tour of NMFS lab.

VI. Instructional Materials

Slides and filmstrips detailing sources, types, and effects of pollutants;

General Field sampling equipment; Each field water quality test kits.

VII. Basic Requirements for Completion of the Course

Participation in course activities, including discussions; Field notebook/logbook; summary report

VIII. Text

None - selected readings will be utilized - see IX, "Bibliography."

IX. Bibliography

- Clark, C.R. 1977. Coastal Ecosystems Management. Wiley Interscience, John Wiley and Sons, New York, N.Y.
- Bilbrough, E.D., ed. 1979. Assimilative Capacity of U.S. Coastal Waters for Pollutants. U.S. Dept. Commerce, NOAA Environmental Research Laboratories. Boulder, Colorado.
- O'Conner, J.S. and H.M. Stanford (eds.) 1979. Chemical Pollutants of the New York Bight; Priorities for Research. U.S. Dept. Commerce, NOAA Environmental Research Laboratories. Boulder, Colorado.
- U.S. Dept. Commerce - NOAA/NMFS. 1981. Annual NEMP Report on the Health of the Northeast Coastal Waters of the United States, 1980. NOAA/NMFS-F/NEC-10. Woods Hole, Mass.
- U.S. Dept. Commerce - NOAA/NMFS. 1983. Annual NEMP Report on the Health of the Northeast Coastal Waters of the United States, 1981. NOAA/NMFS-F/NEC-20. Woods Hole, Mass.