

Course Syllabus

DREDGING MANAGEMENT

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Program: Oceanographic Engineering

1. Course number and name

OCEG1037 - DREDGING MANAGEMENT

2. Credits and contact hours

2 credits and 3 contact hours

3. Instructor's course or coordinator's name

JONATHAN MARCELO CEDEÑO OVIEDO

4. Text book, tittle, author, and year

- Bray, Richard N.. Dredging, a handbook for engineers (2nd Edition) a. Other supplemental materials
- Abbott, Michael M.. Coastal, estuarial, and harbour engineers' reference book

((alk. paper))

5. Specific course information

a. Brief description of the content of the course (catalog description)

This professional training course uses management process as a tool applied to the development of dredging works. The different uses of dredged material and the compliance with environmental aspects within management are reviewed. Technical requirements to be fulfilled at the beginning of the works are also reviewed. Finally, legal aspects involved in a Dredging Contract are reviewed, as well as the role of the Administrator and Supervisor in management of compliance with a Dredging Contract. The course is strengthened with observation practices of field work on board a dredger and the elaboration of a technical report of the field visit.

b. Prerequisites

DREDGING PLANNING - OCEG1040

c. This course is: Required

6. Specific goals for the course

a. Specific outcomes of instruction

- 1.- Support in the decision making and management of a dredging contract with engineering, environmental and legal criteria for the fulfillment of the project's objectives.
- 2.- Identify each of the contractual technical commitments related to sediment management, environmental aspects and equipment, which allow an optimal performance to meet the deadlines
- 3.- Adequately relate the role of each of those involved contractually within the framework of the contractor, contracting party, administrator, overseer and control institutions.

b. Explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course

- An ability to recognize ethical and professional responsibilities in engineering

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situations and make informed judgments, which must consider the impact of
engineering solutions in global, economic, environmental, and societal
contexts.

7. Brief list of topics to be covered

- 1.- Evaluation activities
- 2.- Management applied to dredging works

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- 3.- Uses of the dredged material
- 4.- Environmental aspects
- 5.- Execution of the work
- 6.- Legal aspects of a Dredging Contract
- 7.- Administration and Control of a Dredging Contract