

Course Syllabus

PORTS I

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Program: Oceanographic Engineering

1. Course number and name

OCEG1009 - PORTS I

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

- Tsinker, Gregory P.. Port engineering: planning, construction, maintenance, and security ((alk. paper))

5. Specific course information

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

This course covers issues related to port areas such as maritime transport as well as different criteria, methods and recommendations that determine port dimensions, defense and mooring systems. It includes ship operation and cargo management, as well as port construction procedures.

b. This course is: Required

6. Specific goals for the course

a. Specific outcomes of instruction

1.- Analyze different types of ports, ships and environmental factors that affect ports, to understand their influence on operation and functionality.

2.- Analyze different criteria and recommendations that are considered in port dimensioning and design.

3.- Examine construction procedures for different port infrastructure and superstructure to select the best option considering optimization of available resources.

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

- An ability to identify, formulate, and solve complex oceanographic engineering problems by applying principles of engineering, science, and mathematics.

7. Brief list of topics to be covered

1.- Ports and maritime transport

2.- Sizing of general and specialized ports

3.- Dimensioning of defense and mooring systems

4.- Port construction

