

Course Syllabus

DESCRIPTIVE OCEANOGRAPHY

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Program: Oceanographic Engineering

1. Course number and name

OCEG1051 – DESCRIPTIVE OCEANOGRAPHIC

2. Credits and contact hours

2 credits and 2 contact hours

3. Instructor's course or coordinator's name

JONATHAN MARCELO CEDEÑO OVIEDO

4. Text book, tittle, author, and year

- Harold V. Thurman. Essentials of Oceanography (12th Edition)
 - a. Other supplemental material.
- Santoro, Francesca. Cultura oceánica para todos: kit pedagógico (1)
 - Intergovernmental Oceanographic Commission. La ciencia que necesitamos para el océano que queremos: El Decenio de las Naciones Unidas de las Ciencias Oceánicas para el Desarrollo Sostenible (2021-2030) ()

5. Specific course information

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

This subject of professional training is an introduction to Oceanography which offers an integrated view from physical, chemical, biological and geological perspective. In addition, it presents the current state of research at local, regional and global level, including contemporary issues such as Climate Change, Ocean health, sustainable fishing, integrated management of marine-coastal resources, 14 goal of sustainable development (submarine life), El Niño-Southern Oscillation Phenomenon, International decade of Oceans, and many other related topics.

- b. Co- Requisites

FUNDAMENTALS OF OCEANOGRAPHIC ENGINEERING - OCGE1035

- c. This course is: Required

6. Specific goals for the course

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

7. Brief list of topics to be covered

- 1.- Assessment activities
- 2.- Introduction
- 3.- Marine Geology perspectives
- 4.- Physical Oceanography perspectives
- 5.- Chemical Oceanography perspectives
- 6.- Biological Oceanography perspectives
- 7.- Contemporary topics

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OCEANOGRAPHIC INFORMATION ANALYSIS

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