Course Syllabus

FISHERIES OCEANOGRAPHY

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Program: Oceanographic Engineering

1. Course number and name

OCEG1019 - FISHERIES OCEANOGRAPHY

2. Credits and contact hours

3 credits and 3 contact hours

3. Instructor's course or coordinator's name

JONATHAN MARCELO CEDEÑO OVIEDO

4. Text book, tittle, author, and year

• Castrejón Mendoza Hugo Mauricio. Co-Manejo Pesquero en la Reserva Marina de Galápagos (1era Edición)

5. Specific course information

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

Fisheries oceanography is the study of the ecological relationships between fish and the dynamics of their marine environments and aims to characterize physical, chemical and biological factors that affect the recruitment and abundance of captured species. A recent boost within the fisheries management community is towards ecosystem-based management. Here, we show how oceanographic data can be used to generate indicators of ocean conditions in a marine ecosystem context, and how these indicators relate to the recruitment of marine species.

b. This course is: Selected elective

6. Specific goals for the course

a. Specific outcomes of instruction

1.- Know the parameters that define the habitats of different life stories and stages of fish, for their correct identification.

2.- Assess the health of fishing ecosystems, for the establishment of measures of sustainable use and protection.

3.- Analyze the effects of survival and abundance of fish that are parts of the fishing target, for understanding their population dynamics.

b. Explicity 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.- Introduction to fisheries sciences

2.- Species, life stories and distribution

3.- Ocean effects on population dynamics

4.- Fisheries management

5.- Climate Change and Fisheries

6.- Fisheries data