

GENERAL OCEANOGRAPHY (OCE)

OCE1001 INTRODUCTORY OCEANOGRAPHY (3.00 Credits)

Using the scientific method, critical thinking skills, and data analysis, this course will examine the fundamental processes of the ocean system, composed of an atmosphere, hydrosphere, lithosphere, and biosphere, through time. The course will also explore interactions between these spheres, including critical analysis of scientific theories and emphasize oceanic connections with humanity.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

OCE1001L OCEANOGRAPHY LABORATORY (1.00 Credits)

This laboratory course will include methods for collection, interpretation and presentation of oceanographic data. The topics covered will include problem solving in all aspects of ocean science to understand how the hydrosphere, lithosphere, biosphere and atmosphere of our planet functions and interacts and demonstrate a basic understanding of the unifying principles and processes that link geology, chemistry, physics, meteorology and biology to the study of the world ocean.

Total Contact Hrs: 32.00

Lab Hrs: 32.00

OCE3008 ADVANCED OCEANOGRAPHY (3.00 Credits)

Oceanography is an interdisciplinary science course which considers the biological, physical, and chemical components and processes within the earth's oceans. Topical sections include: the history and processes (plate tectonics) which have shaped ocean basins; the ocean constituents (seawater & sediments); physical processes which drive circulation processes (currents, waves, & tides); life in the oceans play in controlling global climate; and environmental concerns. The course will emphasize oceanographic processes and their effects on the global system.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Prerequisite: MAC1105 (minimum grade: C)

OCE3064C MARINE CONSERVATION AND RESTORATION BIOLOGY (3.00 Credits)

Marine and coastal habitats provide direct and indirect benefits to humans. Conservation and restoration of these habitats is of vital importance to human health and well-being. Emphasis on policy and restoration field techniques to conserve and restore these habitats will be highlighted. Unit 8 will be covered with 1 or more of the remaining units covered based on faculty expertise.

Total Contact Hrs: 48.00

Lecture Hrs: 32.00

Lab Hrs: 16.00

Complete all the courses in one of the following options:

- Option 1 - Prerequisite: PCB4043 (minimum grade: C)
- Option 2 - Prerequisite: OCE1001 (minimum grade: C)