

# OCEANOGRAPHY (OCGY)

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## **OCGY 208 Intro Physical, Chemical and Geological Oceanography**

3 Credits

This course introduces the history, methodology and fundamental principles of physical, chemical and geological oceanography. Some of the topics covered include: history and development of oceanography; methods; ocean basin structure; properties of sea water; salinity, temperature and density distributions; circulation; waves and tides; acoustics; the oceans and climates. (3,0,0)

### **Prerequisites**

Any two pairs: BIOL 101 and 102, or CHEM 101 and CHEM 102, or GEOG 150 and GEOG 160, or PHYS 101 and PHYS 102

### **Transfer Credits**

Explore transfer credit opportunities by visiting the BC Transfer Guide (<http://www.bctransferguide.ca>)

## **OCGY 209 Introduction to Biological Oceanography**

3 Credits

Introduction to Biological Oceanography is a one semester course that introduces the history, methodology, and fundamental principles of biological oceanography. The course will provide the grounding principles necessary to pursue a career in marine biology, oceanography, or marine technical trades. Some of the topics covered include: biological oceanography; phytoplankton; zooplankton; benthos; fisheries and aquaculture; marine sediments; marine resources; and pollution of the sea. Local examples will be used to illustrate the material. Slide shows of marine organisms and issues bring the material to life.

### **Prerequisites**

BIOL 101 and BIOL 102

### **Transfer Credits**

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## **OCGY 210 Methods of Monitoring the Marine Environment**

3 Credits

Introduction of the study of marine water quality monitoring and the problems associated with different types of marine pollution. Students will select a local marine site for study, and will plan, organize, and execute a short study of the site. Students develop the analytical laboratory skills essential in the field of water quality analysis. Emphasis will be placed on the use of instruments and other sampling equipment, sampling techniques, and basic analytical procedures in the laboratory. Students will write a concise technical report at the end of the course summarizing the findings of their project. (3,0,0)

### **Prerequisites**

OCGY 208 and OCGY 209 and CHEM 101 and CHEM-102

### **Transfer Credits**

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