MARINE BIODIVERSITY
LAB PROGRAM
AT OCEAN SCIENCES CENTRE

COASTAL EXPLORERS FIELD SCHOOL

Join us from October 1st to November 23rd, 2018 for a fantastic field trip experience at Ocean Sciences Centre in Logy Bay!

The Department of Ocean Sciences and Oceans Learning Partnership are jointly offering this hands-on, lab-based program to give Biology 2201 students and teachers a unique opportunity to discover the fascinating world of ocean science. The program is designed to readily align with many of the learning outcomes associated with Unit 2: Biodiversity (details on Pg. 2).

An educator's guide that includes curriculum links, detailed description of activities, and field trip requirements will be sent once the program is booked!



WHAT WILL THE LAB PROGRAM COVER?

Hands-on learning is what we do! Students will get up-close and personal with living invertebrates, work through dichotomous keys to identify organisms in different phyla, complete a fish dissection, interact with the resident harp seals and be introduced to the wonderfully diverse world of seaweeds.

Our graduate students will guide students as they discover the ocean in a whole new way. Students will learn valuable lab skills and get exposure to the many career possibilities in marine research.

WHAT ARE THE LOGISTICS & COST?

- Location: Ocean Sciences Centre, Memorial University, Logy Bay.
- Time needed: 4 hrs.
- Must be scheduled in advance.
- Approx. 40 students maximum per program.
- Cost: $10/student.

HOW DO I SIGN UP MY CLASS?

For more details and to sign up, please contact:
Danielle Nichols at dnichols@mun.ca.

CURRICULUM LINKS

This program is designed to tie in to the Biology 2201 curriculum, particularly for Unit 2: Biodiversity. Outlined below are the Knowledge, Skills, STSE and Attitude outcomes that the students will gain through participation in this program.

KNOWLEDGE

CORE LAB #3 – Creating a dichotomous key

316-5 use organisms found in a local or regional ecosystem to demonstrate an understanding of fundamental principles of taxonomy

316-6 describe the anatomy and physiology of a representative organism from each kingdom

SKILLS

213-5 compile and organize data, using appropriate formats and data treatments to facilitate interpretation of the data

214-1 describe and apply classification systems and nomenclatures used in the sciences

215-6 work co-operatively with team members to develop and carry out a plan, and troubleshoot problems as they arise

STSE

115-7 explain how scientific knowledge evolves as new evidence comes to light and as laws and theories are tested and subsequently restricted, revised, or replaced

116-2 describe how classification systems improved as a result of the development of modern techniques

ATTITUDE OUTCOMES

440 acquire, with interest and confidence, additional science knowledge and skills, using a variety of resources and methods, including formal research

441 consider further studies and careers in science- and technology-related fields

442 confidently evaluate evidence and consider alternative perspectives, ideas, and explanations

446 have a sense of personal and shared responsibility for maintaining a sustainable environment

449 show concern for safety and accept the need for rules and regulations

MEMORIAL UNIVERSITY

Oceans Learning Partnership