

MARINE BIODIVERSITY LAB PROGRAM

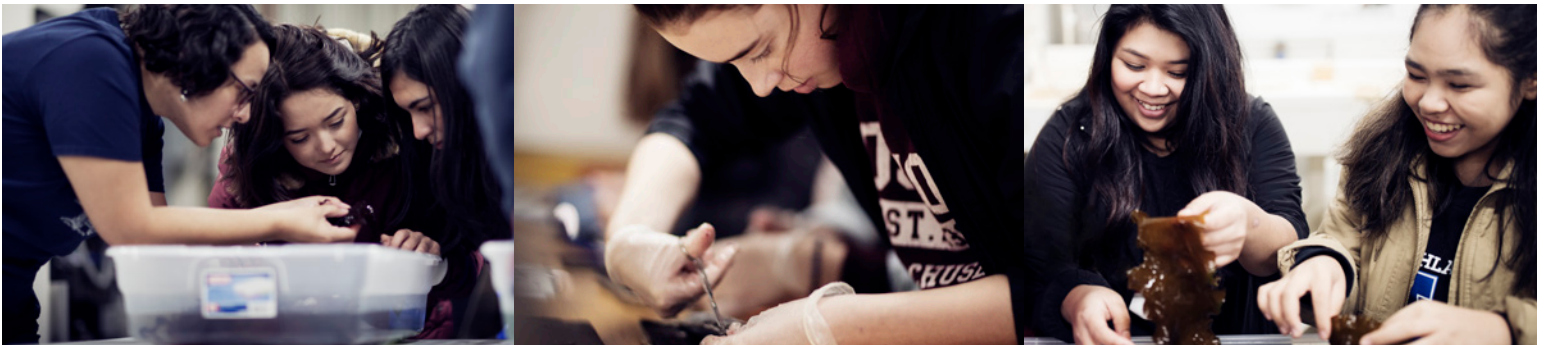


AT OCEAN SCIENCES CENTRE

Join us for a fantastic field trip experience to explore local marine biodiversity at Ocean Sciences Centre in Logy Bay!

The Department of Ocean Sciences and Oceans Learning Partnership jointly offer this hands-on, lab-based program to give high school students and teachers a unique opportunity to discover the fascinating world of ocean science. Offered both in Fall and Spring each year, the program is designed to readily align with many of the learning outcomes associated with Biology 2201, particularly Unit 2: Biodiversity; other relevant classes are also welcome to attend.

When you book your program, you will receive an Educator's Guide that includes curriculum links, detailed descriptions of activities, field trip requirements, and pre- and post-field trip learning resources.



WHAT WILL THE LAB PROGRAM COVER?

Hands-on learning is what we do! Students will get up close and personal with living invertebrates, identify organisms in different phyla, complete a fish dissection, get introduced to aquaculture principles become acquainted with the wonderfully diverse world of seaweeds.

Engaging and knowledgeable MUN graduate students guide our program participants as they encounter the ocean in a whole new way. Students will learn valuable lab skills and get exposure to the many career possibilities in marine research.

LOGISTICS & COST

- Location: Ocean Sciences Centre, Memorial University, Logy Bay
- Time needed: 4 hrs. + travel time
- 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 align with the Biology 2201 curriculum (Knowledge, Skills, STSE and Attitude outcomes outlined below) but other relevant classes can also attend.

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

