Oceans 11 curriculum Outcomes and learning targets
MODULE 1: STRUCTURE AND MOTION
Identify oceans and related water areas in the world and describe related science- and technology-based careers (OSM-1)
Analyze the basic structure of Earth's waters using evidence and information to support your findings (OSM-2)
Identify, collect data, and describe the unique properties of water (OSM-3)
Identify, explain, and show how ocean currents' Coriolis effect, and thermohaline currents are related (OSM-4)
Identify and describe tide theory and types of tides (OSM-6)
MODULE 2: MARINE BIOME
Explain the marine biome and describe the biodiversity of ocean life and determine interconnections that exist within the marine biome (MBIO-1)
Compare representative marine organisms and communities (MBIO-2)
Compare characteristics of the open ocean and coastal zones referencing terms and impact on local ecosystems (MBIO-3)
Develop and report appropriate sampling procedures to obtain quantitative data on the abundance of marine organisms at a local coastal area and describe and apply classification systems and nomenclatures to organisms found in the marine biome (MBIO-4)
Explain how a particular organism functions in its habitat (MBIO-5)
MODULE 3: COASTAL ZONES
Discuss the concept of coastal zones and how these vary around the world (CZON-1)
Describe and explain the causes and characteristics of major types of coastal zones (CZON-2)
Identify and explain sustainability and human use of an environment, including populations and resources, locally and globally (CZON-3)
List and discuss human interactions with the processes involved in the coastal zone environment, and describe competing views (CZON-4)
Discuss the purpose and process of integrated coastal zone management and analyze a coastal zone management structure and the interrelationships found in a local area (CZON-5)
MODULE 4: AQUACULTURE
Identify, and compare aquaculture—locations and species—grown in Nova Scotia, in the rest of Canada, and globally (AQUA-1)

Describe and identify groups of organisms raised through aquaculture and their geographic locations, referring to anatomy and physiology of a major species and ecology of cultured species (AQUA-2)
Describe, measure, and analyze conditions for aquaculture operations (AQUA-3)
Analyze site planning from various perspectives and report on both the risks and benefits to society and the environment (AQUA-4)
Identify, analyze, and evaluate various aquaculture business opportunities (AQUA-5)
Explain aquaculture-related issues (AQUA-6)
MODULE 5: FISHERIES
Explain the importance of a sustainable fishery as a resource to global and local food supply and employment with reference to terminology (FISH-1)
Describe, identify, and analyze the external and internal anatomy of a major finfish or shellfish species that is part of the commercial fishery (FISH-2)
Construct, interpret, and evaluate various ecological factors (FISH-3)
Compile and organize fish population data and explain the dynamic interrelationships among the physical environment, the biological environment, and the health and distribution of a fish stock (FISH-4)
Compare the risks and benefits to society and the environment of applying scientific knowledge or introducing a technology to the fisheries (FISH-5)
Identify, describe, and analyze multiple perspectives of the main organizations in research and decision making in fisheries management in Canada (FISH-6)