

Graduate Module Outline

Title: **Applied Marine Phycology**

Instructor: David Garbary

Timing (month/year module will be offered): Nov. '09 to March '10

Module Description:

A field, tutorial, laboratory and independent research study involving marine algae. Student will learn the basics of algal morphology, the use of keys for seaweeds of the region, and undertake a comparison of the seaweeds in a similar habitat type at opposite ends of the province. A paper will be written to summarize the results of the collections which will review the species collected in terms of their commercial utilization globally, and their potential for aquaculture development.

Format:

Field, laboratory and independent study. At least two field trips will be undertaken to the rocky shores at Tor Bay (Guysborough Co.) and Woods Harbour (Yarmouth Co.) when seaweeds will be collected. The collections will then be processed in Antigonish to make a formal herbarium collection and to then undertake the basic microscopy to understand the morphology.

Method of Evaluation:

Herbarium Collection 25%

Paper 75 % (the paper will be graded based on writing style (20%), organization (20%), content (30%) and references (10%).

Prerequisites (list undergraduate courses required as prerequisites):

An undergraduate course in ecology and a basic course in organismal diversity, preferably dealing with plants.