Marine Macroalgae, MSL 692
Syllabus for FALL 2000
214 O'Neill Bldg

Instructor: Brenda Konar
   Phone: 474-5028, e-mail: bkonar@ims.uaf.edu
   open office hours

Requirements:
   upper division standing in a natural science for undergraduates or graduate standing

Required Book:
   North Pacific Seaweeds, O'Clair and Lindstrom

Recommended Books:
   Marine Algae of California, Abbott and Hollenberg
   Seashore Plants of California, Dawson and Foster

Course Goals:
   This course is designed to be a brief introduction to macroalgae. It will include lectures, labs and a mandatory field trip.
   The lectures will begin with a general introduction to the classification system, similarities of algae to vascular plants, unique characteristics of algae, general morphological characteristics, and life history strategies. Once these topics are covered, we will then explore more detail on each of the divisions, starting with the green algae, then the reds and finally the browns. These topics will include classification, morphology, growth, reproduction, ecology and economic uses.
   The labs will introduce morphological characteristics, algal keys and pressing. Live specimens will be provided for all labs. It is recommended that all students keep a lab notebook, however, it is not required.
   In addition to the lectures and labs, reading assignments of selected original literature will be provided during the course. Original literature will show current areas of macroalgal research and how theories are tested. We will discuss readings at the end of lecture days.
   The field trip is mandatory. We will spend one long weekend at the Kasitsna Bay Laboratory. We will work two tides per day (morning and evening). The afternoons will be spent in the lab keying and pressing algae. This is a great opportunity to construct the required algal collections (see grading below)

Grading:
   Undergraduate students:
      Midterms (3): 60%
      Pressings: 20%
      Final ID quiz: 20%
   Graduate students:
      Midterms (3): 55%
      Pressings: 15%
      Final ID quiz: 15%
      Paper: 15%

Midterms: These will be primarily short answer.

Pressings: You will be required to have 20 different species pressed and identified: 5 of these will be greens, 5 will be browns and 10 will be reds. These pressings will be done at the K-Bay laboratory.

Final ID quiz: This will include common species that you should know “on site” and a couple that you will be asked to key.

Paper: This will be a short review paper (5-8 pages) on an algal topic of your choice. You will use (and cite in your reference section) at least 5 current journal articles (1995+). These will come from peer-reviewed journals.