Course Syllabus Dr. Bill Stickle

Biology 4263 Marine Communities Laboratory 1 credit hour

Summer Special Session July 19 –August 10, 2013 University of Alaska, Southeast, Juneau Alaska

Lab: 8:30-10:30 MTWThFS Anderson Building Phone/Email: Cell (907) 287-0835 zostic@lsu.edu

Office Hours: Class, Lab, Faculty Apartment as assigned by UAS - Building

Communication via Moodle: [http://](NULL) Moodle.LSU.edu

**Catalog Description:** Laboratory Experiences in marine communities

**Required Textbook**: None; handouts will be provided

Evaluation: Points

A. Practicals:

 August 1, August 9 (Final) - 100 points each = 200

B. Lab reports (5 x 40) 200

 Total = 400

Grading Scale

A = 90-100% = 360-400 Points

B = 80-89% = 320-359 Points

C = 67-79% = 268-319 Points

D = 50-67% = 200-267 Points

F = < 50% = 0-199 Points

**Date Laboratory**

7/19-21Marine Birds and Mammals – Observations on the Ferry

7/19-21 Waves and tides- observations from the Ferry

7/22 Tides from Tide Tables

7/23 Field trip to the rocky intertidal zone, transects and collect data from the previous deployment of temperature, salinity, and dissolved oxygen monitors. **Field trip to Sunshine Cove –Low tide = 8:25AM**

7/24 Study zonation of marine algae and animals in the rocky intertidal

7/25 Marine nekton overview and observe commercially important nekton from southeast Alaska : **Lab report on the rocky intertidal zone and Barnacles and Tides (Link to Power Point File) and Keystone Predator 101(Link to Power Point File)**

7/26 **Field trip to the Alaska State Museum**

7/27 No Lab

7/29 Marine nutrient analysis of seawater samples collected in the Auke Bay Water column

7:30 **Whale watching cruise and salmon bake**

7/31 Phytoplankton and zooplankton lab:**Limiting Nutrients and Competition, Go Fish, and Oil spills (Link to Power Point Files)** Field trip to the Mendenhall salt marsh and study of fauna and flora collected at the Mendenhall salt marsh

8/1 **Cruise to the Tracy Arm Fiord to observe tidewater glaciers and Harbor seals** :Lab reports due on nekton and plankton and **Practical 1**

8/2 Field trip to the Mendenhall Glacier and hiking trip to Juneau Icefield ( 6:00 and 10:00 PM)

8/5 Plant succession from the Mendenhall Glacier

8/6 **Field trip to Eagle River Mud Flat – Low tide at 7:57 AM**

8/7 Study infauna from the Eagle River Mud flat

8/8 Field trip to the Mendenhall salt marsh and study of fauna and flora collected at the Mendenhall salt marsh

8/9 Lab report on mud flat, salt marsh, and plant succession field trips and **Practical 2**