Course Syllabus Dr. Bill Stickle

Biology 4263 Marine Communities Laboratory 1 credit hour

Summer Special Session July 15 –August 6, 2011 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:// Moodle.LSU.edu

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

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

Evaluation: Points

A. Practicals:

 July 26, August 6 (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**

7/16Marine Birds and Mammals – Observations on the Ferry

7/17 Waves and tides- observations from the Ferry

7/18 Tides from Tide Tables

7/19 Field trip to the rocky intertidal zone, transects and observe deployment of temperature, salinity, and dissolved oxygen monitors

7/20 Study zonation of marine algae and animals in the rocky intertidal

7/21 Marine nekton overview: **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)**

7/22 Commercially important nekton from southeast Alaska

7/23 Plankton

7/24 **Limiting Nutrients and Competition, Go Fish, and Oil spills**

7/26 Lab reports on nekton and plankton - **Practical 1**

7/27 Trip to Juneau Icefield : 6:00 and 6:30 PM

7/28 Succession from the Mendenhall Glacier

7/29 Field trip to the Alaska State Museum

7/30 Whale watching cruise and salmon bake

7/31 Field trip to the Mendenhall salt marsh

8/2 Study of fauna and flora collected at the Mendenhall salt marsh and succession of vegetation from the Mendenhall glacier

8/3 Field trip to Eagle River mud flat

8/4 Study of fauna collected from Eagle River mudflat

8/5 Rocky intertidal environmental factor variation documentation with oceanographic sensors and final field observations

8/6 Lab report on mud flat, salt marsh, and plant succession field trips and **Practical 2**