Course Syllabus Dr. Bill Stickle

Biology 4262 Marine Communities 3 credit hours

Summer Special Session July 15 – Aug. 6, 2011 Univ. of Alaska, Southeast, Juneau Alaska

Lecture: 8:30-11:00 MTWThFS Anderson Building

Phone/Email: Cell (225) 287-0835/ zostic@lsu.edu

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

Communication via Moodle: http:// Moodle.LSU.edu

**Catalog Description:** Marine biology and ecology of benthic, planktonic, nektonic, estuarine, coral, and deep-sea communities; comparison between marine communities in Louisiana and Alaska.

**C-I Course:** This course is certified as a “Communication-Intensive Course” and meets all of the requirements explained on the CxC Web site: http://cxc.lsu.edu., including the following: Emphases on formal and informal assignments in written and spoken communication, class time spent on communication, 40% of the final grade based on communication projects, revisions after faculty feedback on 2 formal projects (one for each emphasis), and a student/faculty ratio of 35:1. Because it meets these requirements, students may count it toward “Distinguished Communicator” certification on LSU transcripts.

We will work with the Communication Studio Coordinator to help you prepare for your written and spoken projects. Two lectures will be offered, and supplemental help can be provided.

Evaluation: Points

1. Exams:

 July 21, July 29, August 6 (Final) – 100 points each 300

1. Paper on a Topic of marine Communities (10-12 pages) 150

 12 original sources / Outline Submission / Paper Submission (June 30th)

While in Alaska meet with experts and using interviews and faculty feedback,

students will revise their research papers and resubmit for a final grade (August 2nd)

1. PowerPoint Presentation 100

 15 minute presentation on paper topic. Practice Presentation with Faculty.

 Schedule to be announced. Final Presentations in-class;

 schedule to be announced.

 Total = 550

Grading Scale

A = 90-100%

B = 80-89%

C = 67-79%

D = 50-67%

F = < 50%

**Date Lecture**

7/16 Ecological Zonation in the sea: Environmental factors effecting marine life -Ferry

7/17 Marine Benthic Communities, Overview: The rocky intertidal zone - inside waters -Ferry

7/18 Descriptive Physical Oceanography and the composition of seawater- **Introductory Lecture from Dr. Jeep Rice and Tour of the NMFS Laboratory**

7/19 Marine Pelagic Communities – nekton, Marine Fisheries

7/20 Anadromous and catadromous fish, mariculture

7/21 **Exam 1**: **Salmon Lecture and tour of the Auke Creek Salmon Hatchery – Mr. Joe Orsi and Mr. John Joyce**

7/22 Human Impacts on the sea: fisheries and pollution – **Prince William Sound Oil Spill and Response- Dr. Jeep Rice**

7/23 Marine Pelagic Communities – phytoplankton and primary production

7/24 Marine pelagic communities – primary production and zooplankton

7/26 Marine Benthic Communities – **King Crabs and their life cycles – Dr. Ginny Eckert**

7/27 Marine Benthic Communities - soft sediments - **Alaska’s Nearshore Habitats – Ms. Mandy Lindeberg**

7/28 Soft Sediments – sandy beaches and mud flats

7/29 **Exam 2**: Soft Sediments - salt marshes and mangrove swamps

7/30 Estuaries and estuarine communities –

7/31 Subtidal benthic communities

8/2 Sulfide based communities

8/3 Coral reefs

8/4 Coral in Cold Water – Mr. Robert Stone

8/5 **NOAA Fisheries Ecosystem Approach to Alaskan waters – Dr. Ron Heintz**

8/6 **Final exam: Exam 3**