GEOLOGY 122 (Class #19779): The World Ocean
SPRING 2017 TR 11:00 – 12:15 pm Live Oak Room 1205
INSTRUCTOR: Dr. Kathleen M. Marsaglia Office: Live Oak Hall 1233 (2nd floor) Phone: 677-6309
Office Hours: Th 2:30-3:30 pm or by appointment Email: kathie.marsaglia@csun.edu

OVERVIEW: Course will provide an introduction to the world’s oceans and aspects of marine science, including the evolution of the ocean basins, their environment, and their resources. It touches on aspects of geological, chemical, physical and biological oceanography. This course satisfies the lecture part of the General Education Requirement in the Natural Sciences whose goal is for students to develop basic knowledge and learn key scientific principles, including an understanding of the methods of scientific inquiry. The corresponding laboratory is Geol 123, that includes 3 hours of lecture and field trips.

General Education Learning outcomes that students will address in this course:
- Demonstrate an understanding of basic knowledge, principles and laws in marine sciences.
- Explain how the scientific method is used to obtain new data and advance knowledge.
- Demonstrate an understanding of the logical foundations and boundaries of marine science.
- Recognize the contribution and potential of marine science in human society and everyday life.
- Demonstrate competence in applying the methods of scientific inquiry.
- Demonstrate an ability to apply scientific knowledge and to critically assess real-world issues & make sound decisions.

REQUIRED TEXT BOOK: Trujillo and Thurman Oceanography (12th Edition). There are older editions of this text but I am not certain how they have changed through time.

ACADEMIC DISHONESTY – Academic dishonesty will not be tolerated and evidence for such will be reported to the Office of the Vice President for Student Affairs with my recommendation for disciplinary action, and assignment of a failing grade for the course. Official California State University policy states: Cheating or plagiarism in connection with an academic program at a campus is listed in Section 41301, Title 5, California Code of Regulations, as an offense for which a student may be expelled, suspended, or given a less severe disciplinary sanction. Such dishonesty includes but is not limited to: cheating, fabrication, facilitating academic dishonesty, and plagiarism.

TENTATIVE SCHEDULE

Week 1 (Jan. 24, 26) – Chapter 1 – Introduction to Planet Earth; Chapter 5 – Water and Seawater
Week 2 (Jan. 31-Feb. 2) – Chapters 6 – Air-Sea Interaction
Week 3 (Feb. 7, 9) – Chapter 7 – Ocean Circulation

** February 10, Last day to add or drop a class with permission number

Week 4 (Feb. 14, 16) – Chapter 11 – Marine Pollution
Week 5 (Feb. 21, 23) –** Exam I covers Chapters 1, 5, 6, 7, 11;
Week 6 (Feb. 28, Mar. 2) – Chapter 2 - Plate Tectonics and the Ocean Floor
Week 7 (Mar. 7, 9) – Chapter 3 – Marine Provinces
Week 8 (Mar.14, 16) – Chapters 12 & 13 – Marine Life, Environment & Biological Productivity

Week 9 (Mar. 21, 23 – NO CLASS - Spring Break)
Week 10 (Mar. 28, 30) – Chapter 4 – Marine Sediments
Week 11 (April 4, 6) – Chapter 8 – Waves and Water Dynamics
Week 12 (April 11, 13) –** Exam 2 covers Chapters 2, 3, 4, 12, 13
Week 13 (April 18, 20) – Chapter 9 – Tides
Week 14 (April 25, 27) – Chapter 10 – Beaches, Shorelines and the Coastal Ocean
Week 15 (May 2, 4) – Chapters 14 and 15 - Animals of the Pelagic and Benthic Environments
Week 16 (May 9, 11) – Chapter 16 – The Oceans and Climate Change
Week 17 (Tues. May 16) – **Final exam 10:15-12:15 am Chapters 8, 9, 10, 14, 15, 16 & questions from previous exams