

Shoreline Community College  
Summer, 2009  
**Oceanography 101: Introduction to Oceanography**  
(SUMMER 2009 OCEA& 101 Intro to Oceanography 0815 M1)

**SYLLABUS – PLEASE READ ALL AND PRINT**

**Course Instructor: Linda M. Khandro**

**Contact: [lkhandro@shoreline.edu](mailto:lkhandro@shoreline.edu)**

**Website: [www.lindakhandro.com](http://www.lindakhandro.com)**

**Text: Fundamentals of Oceanography 5<sup>th</sup> ed, (Sverdrup et al), ISBN: 0073040819**

**Lab Instructor: Brian Saunders**

**Contact: [bsaunders@shoreline.edu](mailto:bsaunders@shoreline.edu)**

**Office Hours: 11:00-12:00 noon, Thursday in Rm 2903 (see schedule in Part B for exact dates);**

**Office Phone: 546-4567 (leave message only)**

**Lab Materials: available through our Blackboard Classroom as course proceeds**

**\*\*\*\*\*IMPORTANT NOTE ABOUT LABS\*\*\*\*\***

**Please note that this course is now being taught by two instructors: Linda Khandro is the instructor of record for registration, overall content, and grading, and contact with Linda will be exclusively online via Blackboard and the email address above. Brian Saunders is the instructor for the *on-campus lab sessions*, and contact with Brian is via email and his office phone number above. *All questions related to the lab content of this course must go directly to Brian.* Grades for the Labs will be included in the overall course grade. Thus this Syllabus contains two parts: Part A is for the overall course content, schedule, and grading. Part B contains the Lab content.**

**\*\*\*\*\*Important Blackboard Notice Sites\*\*\*\*\***

**Please refer daily to the *Announcements* and to the *Course Calendar* and to these notes:**

\*Textbook chapter readings are not Announced, nor are they on the Calendar, but the suggested timeline for reading is on the Class Outline in the Syllabus, below.

\*All graded work is listed with assignment dates and due dates both on the Syllabus and on the Calendar. *See the end of this Syllabus for Lab details.*

\*Tests are listed on the Syllabus and the Calendar, and each will be Announced a few days ahead of time.

\*Due dates are not time constrained; in other words you may submit any material before midnight of the due date. However, if you have questions that need an immediate response from the Distance Learning office ([elarning@shoreline.edu](mailto:elarning@shoreline.edu)) you will not be able to get help after 4 pm that day (M-F). You may (or may not) be able to reach me with questions up till about 10 pm on any given due date. So please submit any questions in a timely manner!

\***Finally, please note that this Summer course is an 8 week course, not the 11 week Fall, Winter or Spring course length to which you may be accustomed. As a result, we cover the same material at an accelerated pace...all assignments will be due on time, per the Course Calendar.**

## **Part A**

### **1. General overview of this course:**

Planet Earth's ocean covers over seventy percent of its surface, yet oceanographic research has only recently come to its full potential with the advent of new technologies. This course will introduce you to the fundamental principles of the physical, chemical, geological, and biological aspects of oceanography. It is designed to be thorough enough to prepare you for more advance work, while presenting the concepts to non-majors in a way that is meaningful and not overwhelming. You will be responsible for reading and assimilating all the chapters in the textbook, although some segments may be omitted or reduced in scope, and some materials not covered in the text will be presented for study as well. You will also be responsible for timely submission of all assignments (see below). There will be four tests, spaced approximately three weeks apart. The fourth test (final exam) is not cumulative; it is a chapter test like the previous three.

*Please note that all four tests will be based upon the textbook chapters, as indicated, and so a very careful reading of the entire textbook is essential for good comprehension, and thus a good grade!*

Please see further information about assignments and tests, along with the grade chart and evaluation summary below.

### **2. Unique Properties of this course:**

Our ability to study and teach in an on-line forum prompts me to offer something unusual to our course; I travel a fair amount, and in the context of this travel and our on-line course, I seek opportunities to include short research assignments on various oceanographic issues. The assignments may differ from quarter to quarter, or they may be similar; this will depend on circumstances I expect to find "on the ground" as the quarters proceed. Current topics include effects of global climate change, effects of human population growth, whale migrations, and marine sanctuaries; and the locations include the west coast of Ireland, the Mediterranean Sea, the south end of the Sea of Cortez and the neighboring Pacific Ocean; the Gulf of Mexico and Caribbean Sea; and the waters surrounding New Zealand. The details of these assignments are posted for you in the Blackboard classroom under the heading *World Ocean Projects*.

### **3. SCC Policies: Please see your Student Handbook or SCC website for details and further information.**

Withdrawal: Withdrawal from any course must be done in an official manner in accordance with school policy. *The last day to withdraw for Summer Quarter 2009 and still receive a W on your transcript is July 23. After July 23 drops show as a Z, NC, or V on your transcript.* You can do this on line as follows: "The process for withdrawing from an online class is that the student emails the instructor for permission, then forwards the instructor's response to [regdl@shoreline.edu](mailto:regdl@shoreline.edu) with their name, student ID number, the name and item number of the class and a request to be withdrawn from the class. They'll get a response when the transaction is completed."

Authentic Work: According to SCC policy, you are expected to do your own work on all assignments and tests.

### **4. Grades:** The followed approved equivalency grading system will be used for this course

<u>Percentage</u>	<u>Point Grade</u>	<u>Percentage</u>	<u>Point Grade</u>
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95-100	4.0	70	1.5
90	3.5	65	1.0
85	3.0	61-63	0.8
80	2.5	60	0.7
75	2.0	0-59	0.0

**Student Responsibilities and Evaluation: total possible = 800 points**

<b>4 chapter tests, approximately one every 2 weeks</b>	<b>400</b>
<b>Homework (10 @ 10 points)</b>	<b>100</b>
<b>Labs (10 @ 10 points)</b>	<b>100</b>
<b>4 Research Reports @ 50 points</b>	<b>200</b>

**5. Course Content Areas:**

**Homework:** Ten short homework assignments are included in this course, and are designed to help you understand basic principles while working at home.

**World Ocean Projects:** Four World Ocean Projects (fondly called WOPs!) will be assigned at about 2 week intervals, with about 2 weeks to complete each one. WOP 4 ***must*** be received no later than Monday August 17. Please see the page called ***World Ocean Projects*** in the Blackboard classroom for further information on these assignments.

**Labs:** *See details on content and schedule at end of this Syllabus*

**Tests:** As mentioned above, we have 4 tests, at about 2 week intervals. Each test covers 3 chapters, and Test 4 is NOT cumulative; like the others, it covers 3 chapters. The test procedure is as follows: I will post the “Test Open” days and times on the Calendar, and send an Announcement reminder that it’s coming up. It usually opens at 1:00 AM on a Saturday, and closes at 11:55 PM the following Monday. From the day/time that the test opens, you will have those 2.5 days in which to take it. Once you start however, you have a total of 3 hours in which to complete it. If you make a mistake, such as closing the Blackboard test page, you will not be able to start again or to continue, thus you must contact me by email ***immediately*** to re-set the test. If necessary, I may be able to give you additional time, after the posted closing day/time. ***Normally however, the ONLY way you can have an extension of the day/time to take the test is if you have a medical emergency, AND/OR inform me ahead of time so that we can make alternative arrangements. Please respect these boundaries, as it is important to be fair to all students who DO complete the test in the allotted time.***

**6. Blackboard Tools:**

**Course Calendar:** all due dates for Labs, Homework, and WOP’s will be posted on the Course Calendar, as will dates for the 4 tests. Please refer to this calendar often!

**Announcements:** I will Announce each Test a few days ahead of time, please make note of them! Other items of interest, changes in due dates, clarifications, etc, will also be Announced as needed.

**Discussion Board:** This is your forum! Feel free to talk to the class here, but please direct specific questions about the course or your needs to me or to Brian by email ([lkhandro@shoreline.edu](mailto:lkhandro@shoreline.edu) and [bsaunders@shoreline.edu](mailto:bsaunders@shoreline.edu)).

**7. Very Important Note!** It is imperative that you label all your Homework and WOP assignments according to the following instructions. *See the Lab section at the end of the Syllabus for details on labeling your Labs.*

Here's how it works: pretend that you are Linda Khandro and that you are submitting Homework 2 (Atlantic Ocean). The file that comprises this work ***must*** be labeled as follows:

**Khandro homework 2.doc**. Note that your first name is ***not*** included in this label, neither is the name of the homework, just its number (1 through 10). Note also that while caps and bold are not needed or desired, spaces between the words aids readability.

Not sure how to do this? Download the Homework or WOP file from the Blackboard Assignment page, save it to your hard drive with your ***last name*** appended to the front end of the file name. Then after you have done the work, you can upload that re-named file back to Blackboard and voila, you're done, I'm happy, and on we go!

## **8. Weekly (Mon-Sun) Class Outline (subject to minor changes as the course proceeds)**

### **Week 1: 6/22-28**

Ch 1 History of Oceanography

Ch 2 Introduction to Earth

*Homework 1 Maps*

*Due Fri 6/26*

### **Week 2: 6/29-7/5**

Ch 3 Plate Tectonics

Ch 4 The Sea Floor

*Homework 2 Atlantic Ocean*

*Due Fri 7/3*

WOP 1 Assigned: North Atlantic Climate Change (Due Sat 7/11)

**Test 1 Weekend 7/4-6, Ch 1, 2, 3**

### **Week 3: 7/6-7/12**

Ch 5 Water

Ch 6 The Atmosphere and the Oceans

*Homework 3 Sediments*

*Homework 4 Water*

*Due Fri 7/10*

WOP1 DUE SAT 7/11

### **Week 4: 7/13-7/19**

Ch 7 Circulation Patterns and Ocean Currents

*Homework 5 Atmosphere*

*Homework 6 Currents*

*Due Fri 7/17*

WOP 2 Assigned: The Mediterranean Sea (Due Sat 7/25)

**Test 2 Weekend 7/18-20, Ch 4, 5, 6**

### **Week 5: 7/20-7/26**

Ch 8 Waves and Tides

*Homework 7 Waves*

*Homework 8 Tides*

*Due Fri 7/24*

WOP 2 DUE SAT 7/25

**Week 6: 7/27-8/2**

Ch 9 Coasts, Estuaries, and Environmental Issues

Homework 9 *Blue Planet or Optional*

*Due Fri 7/31*

WOP 3 Assigned: Gray Whales (Due Sat 8/8)

**Test 3 Weekend 8/1 – 3, Ch 7, 8, 9**

**Week 7: 8/3-8/9**

Ch 10 Oceanic Environment and Production

Ch 11 Life in the Water

Homework 10 *Blue Planet or Optional*

*Due Fri 8/7*

WOP 3 DUE SAT 8/8

**Week 8: 8/10-8/16**

Ch 12 Life on the Sea Floor

WOP 4 Assigned: Marine Sanctuaries (Due Mon 8/17)

**Test 4 Weekend 8/15 – 17, Ch 7, 8, 9**

WOP 4 DUE MON 8/17

**Part B: Laboratories**

1. **Lab Objectives:** The laboratory is designed to introduce students to the underlying principles of the physical, chemical, geological and biological aspects of oceanography. The course is designed to be thorough enough to prepare students for more integrated work, while presenting non-majors to a level that is meaningful and not overwhelming. I will consider the course a success if you have learned how to think about the ocean critically in an organized, logical way.
2. **Lab Policy:** Students are responsible for reading and understanding the information about Lab policies in this syllabus and the student handbook.
3. **General Policy:** Arrive on time for laboratory. Being late to a laboratory session may exclude you from participation and credit for that day!
  - a. **Human Rights Policy:** All students shall be treated equally regardless of sex, race, beliefs or ability. Failure to respect the rights of others (including the right to a safe chemical environment) may lead to student dismissal from the course. Please **turn off** all noise-making devices (cell phones, pagers, etc) before lab sessions.
  - b. **Absence and Make-Up Policy:** Missing a lab should be **avoided** at all costs! Missed labs can only be made-up if the instructor is notified *prior* to the laboratory session.

c. Lab Cancellation Policy: Closure of SCC due to weather will be announced on KING, KIRO and KOMO radio/television. We are Shoreline Community College, **NOT** the Shoreline School District.

d. Plagiarism/Cheating Policy: **Each student must conduct and complete their own labs.** Irrefutable evidence of cheating or plagiarism will result in a 0 grade for that assignment as school policy. In addition, students who provide information unethically are just as responsible as those who receive it and are subject to the same penalties. **NO GRADE IS WORTH IT!**

4. **Laboratory Exercises**: We will be exploring the concepts of oceanography first hand in the lab! Laboratory exercises are **mandatory**. Most labs may require **pre-labs** to be completed before the lab starts. On the schedule that follows, labs with an asterisk (<sup>1</sup>) require a pre-lab. Once the lab is completed, a **post-lab** will be due one week after it was conducted. Late labs will be penalized **10%** per day late. **Being absent from class is not an excuse for turning labs in late.**

5. **Lab Outline (tentative)**: Note that there are only **FOUR** mandatory lab meeting times. See dates below and make sure you are able to attend **ALL** lab sessions!

**Week 1: Thursday, June 25 (time?)**

*Introduction to Ocean Labs and Mapping Lab*

Pre-Lab due Wednesday, June 24 by 12:00 midnight, sent to my email as an attachment (<mailto:bsaunders@shoreline.edu>)

Post-Lab due by Thursday, July 2 in Lab

**Week 2: Thursday, July 2**

*Rocks of the Ocean Crust, Magnetism and Plate Motion*

Pre-Lab due Wednesday, July 1 by 12:00 midnight, sent to my email as an attachment (<mailto:bsaunders@shoreline.edu>)

Post-Lab due by Thursday, July 9 (either drop off at school in 2800 Bldg or email attachment)

**Week 3: Thursday, July 9**

No lab: Office hour in Rm 2903 from 11:00-12:00 noon

**Week 4: Thursday, July 16**

*Density Lab*

Pre-Lab due Wednesday, July 15 by 12:00 midnight, sent to my email as an attachment (<mailto:bsaunders@shoreline.edu>)

Post-Lab due by Thursday, July 23 in Lab

**Week 5: Thursday, July 23**

*Intertidal Life Field Trip*

Pre-Lab due Wednesday, July 22 by 12:00 midnight, sent to my email as an attachment (<mailto:bsaunders@shoreline.edu>)

Post-Lab due by Thursday, July 30 (either drop off at school in 2800 Bldg or email attachment)

**Week 6: Thursday, July 30**

No lab: Office hour in Rm 2903 from 11:00-12:00 noon

**Week 7: Thursday, August 6**

*Coastal Processes Field Trip*

Pre-Lab due Wednesday, Aug 5 by 12:00 midnight, sent to my email as an attachment  
(<mailto:bsaunders@shoreline.edu>)

Post-Lab due by Thursday, Aug 13 (either drop off at school in 2800 Bldg or email attachment)

**Week 8: Thursday August 13**

No Lab: Pick up remaining labs from 11:00-12:00 noon

**LAST NOTE FROM LINDA AND BRIAN:**

**COURSE GRADES MUST BE SUBMITTED NO LATER THAN  
TUESDAY, AUGUST 18.**

**THUS ALL COURSE ASSIGNMENTS (HOMEWORK, LABS, AND  
WOP'S) MUST BE SUBMITTED NO LATER THAN THE POSTED  
DUE DATES.**

**PLEASE SEE SYLLABUS AND CALENDAR FREQUENTLY FOR  
POSTED DUE DATES!**

**THIS REALLY IS A DROP DEADLINE, FOLKS.**

**PLEASE MAKE SURE THAT YOU ARE ON TIME.**

*And we thank you!*