MARINE BIOLOGY (BI 357)

Instructor:
Name: Dr. Cynthia D. Trowbridge
Email: cdt@uoregon.edu
Phone: 541-961-0643 cell (no text messages, please)
Office hours: Wed. 3:30–4:30 pm Klamath 373

Teaching Assistant:
Name: Sierra Deutsch
Email: sierrad@uoregon.edu
Phone: 541-961-0643 cell (no text messages, please)
Office hours: Wed. 2:00–4:00 pm Columbia 47A

Course Information:
Lecture: MW 5:00–6:20 pm in LIL 282
Lab: M 10–11:50 am, 12–1:50 pm, 2–3:50 pm in HUE 112
Credits: 4
Prerequisites: BI 213 or 283H

Course Description:
- Students will investigate:
  - major groups of marine algae, marine and estuarine plants, invertebrates, and vertebrates
  - major marine habitats (rocky shores, sandy & muddy shores, coral reefs, kelp forests, open ocean, and deep sea)
  - interactions within and among these groups.
- Emphasis in laboratory is placed on seaweeds and invertebrates commonly found on the Oregon Coast, with some creatures from tropical waters included for contrast. Laboratory observation of live seaweeds and animals forms the basis for a lab notebook.
- A required field trip forms the basis for an exercise in scientific writing. Two field trips have been organized. Students must attend one of these trips:
  - Oregon Coast Aquarium and Seal Rock State Park
  - Oregon Institute of Marine Biology & South Cove, Cape Arago State Park
- Students also develop personal projects that are an important part of the course grade.
- The course grade is based on quizzes, exams, field trip report, personal project, lab notebook, and participation.

Required Materials:
- Textbook: Marine Biology by Castro & Huber 8th or 9th edition
- Rain gear (coats, rain pants, & knee-high boots) for field trips to the shore
- Loose-leaf notebook or binder with lined paper

Significant Dates:
Jan 11: Sat. field trip to Newport (Oregon Coast Aquarium & Seal Rock State Park)
Jan 15, 29: Quizzes in class
Feb 5: Midterm & lab notebooks due
Feb 8: Sat. field trip to Charleston (Oregon Institute of Marine Biology & Cape Arago State Park)
Feb 19: Quiz in class
Mar 5: Quiz in class
Mar 10: Lab practical exam
Mar 17: Final exam & lab notebooks due
Academic Honesty:

Student Conduct and Community Standards:

http://uodos.uoregon.edu/StudentConductandCommunityStandards/StudentConductCode/ExamplesofConductCodeViolations/tabid/255/Default.aspx
http://uodos.uoregon.edu/StudentConductandCommunityStandards/Resources/tabid/234/Default.aspx

“Conduct Matters!
The value of your degree, your educational environment, and the community standards that make the University of Oregon such an amazing place to be are up to all of us to uphold. There are many opportunities to contribute; get involved and help create, maintain, and uphold community standards”

From:
http://uodos.uoregon.edu/StudentConductandCommunityStandards/GetInvolved/tabid/230/Default.aspx

“Academic Misconduct: The University Student Conduct Code (available at conduct.uoregon.edu) defines academic misconduct. Students are prohibited from committing or attempting to commit any act that constitutes academic misconduct. By way of example, students should not give or receive (or attempt to give or receive) unauthorized help on assignments or examinations without express permission from the instructor. Students should properly acknowledge and document all sources of information (e.g. quotations, paraphrases, ideas) and use only the sources and resources authorized by the instructor. If there is any question about whether an act constitutes academic misconduct, it is the students’ obligation to clarify the question with the instructor before committing or attempting to commit the act. Additional information about a common form of academic misconduct, plagiarism, is available at www.libweb.uoregon.edu/guides/plagiarism/students.”

Classroom Courtesy/Electronics Policy:

• UO has a great instructor-student ratio and a dynamic teaching community. Immerse yourself in this valuable opportunity.

• Texting in class and during field trip activities will count as an absence. Instances of texting in lecture and lab will be noted. You are welcome to take notes on your laptop provided it does not become a barrier to your active listening and participation in discussion.

• The safety of your personal electronics in a teaching environment with seawater is your own responsibility.
Grading:

- **Quizzes:** 20%
  - 4 biweekly quizzes each worth 5% of final grade
  - will cover readings, lectures, and lab material from previous weeks
  - format will typically be short answer, multiple choice, or fill-in the blank

- **Midterm & final exams:** 20% total
  - each 10% of final grade
  - format will typically be short answer, multiple choice, or fill-in the blank
  - final will be comprehensive

- **Lab exam:** 5%
  - format will typically be short answer questions and identifications of taxa, morphological features, etc.
  - will cover all lab and field-trip activities

- **Lab Notebook:** 20%

- **Field trip report:** 10%
  - report will be based on field activities
  - additional details TBA

- **Individual project paper:** 20%
  - additional details TBA

- **Active student participation:** 5%
  - Participation is the act of taking part or sharing in something: answering questions posed in lecture, asking questions, helping other students, volunteering to clean up.
  - Synonyms include contribution, sharing, involvement, and engagement.

Attendance/Participation:

- You are required to attend one of the two Sat. field trips (Jan. 11 or Feb. 8). All other activities are required and attendance will be taken in lab.
- You are permitted one absence during the term; every subsequent absence will lower your final grade one notch (A to A-, B+ to B, etc.).
- You are responsible for getting missed lecture and lab material from classmates.
- Arriving late to lab three times will count as an absence.
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Readings</th>
<th>Lab/Field activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 6</td>
<td>Water</td>
<td>Ch. 1 &amp; 3</td>
<td>no lab</td>
</tr>
<tr>
<td>1</td>
<td>Jan 8</td>
<td>Water</td>
<td>Ch. 1 &amp; 3</td>
<td>no lab</td>
</tr>
<tr>
<td>1</td>
<td>Jan 11</td>
<td>Marine invertebrates &amp; vertebrates</td>
<td>handouts</td>
<td>Oregon Coast Aquarium &amp; Seal Rock State Park (low tide @ 3:33 pm, 0.8 ft)</td>
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<tr>
<td>2</td>
<td>Jan 13</td>
<td>Seaweeds</td>
<td>Ch. 6</td>
<td>Seaweeds &amp; Seagrasses</td>
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<tr>
<td>2</td>
<td>Jan 15</td>
<td>Quiz 1</td>
<td>Ch. 6</td>
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<tr>
<td>3</td>
<td>Jan 20</td>
<td>Martin Luther King Day</td>
<td>Ch. 7</td>
<td>No class</td>
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<tr>
<td>3</td>
<td>Jan 22</td>
<td>Invertebrates</td>
<td>Ch. 7</td>
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<tr>
<td>4</td>
<td>Jan 27</td>
<td>Invertebrates</td>
<td>Ch. 7</td>
<td>Sponges, hydroids, anemones &amp; corals</td>
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<td>4</td>
<td>Jan 29</td>
<td>Quiz 2</td>
<td>Ch. 7</td>
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<tr>
<td>5</td>
<td>Feb 3</td>
<td>Guest Lecture by Prof. Craig Young (OIMB)</td>
<td>Ch. 8</td>
<td>Flatworms, ribbon worms, segmented worms, etc.</td>
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<td>5</td>
<td>Feb 5</td>
<td>Midterm</td>
<td>Ch. 9</td>
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<td>5</td>
<td>Feb 8</td>
<td>Seaweeds, invertebrates, &amp; vertebrates</td>
<td>handouts</td>
<td>Oregon Institute of Marine Biology &amp; Cape Arago State Park (low tide @ 2:03 pm, 1.5 ft)</td>
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<tr>
<td>6</td>
<td>Feb 10</td>
<td>Ocean &amp; seafloor</td>
<td>Ch. 2</td>
<td>Chitons, gastropods &amp; bivalves</td>
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<td>6</td>
<td>Feb 12</td>
<td>Ocean &amp; seafloor</td>
<td>Ch. 2</td>
<td></td>
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<td>7</td>
<td>Feb 17</td>
<td>Rocky shores</td>
<td>Ch. 11</td>
<td>Barnacles, copepods, crabs, lobsters, &amp; allies</td>
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<td>7</td>
<td>Feb 19</td>
<td>Quiz 3</td>
<td>Ch. 11</td>
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<td>8</td>
<td>Feb 24</td>
<td>Sandy shores</td>
<td>Ch. 11</td>
<td>Phyto- &amp; Zooplankton</td>
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<td>8</td>
<td>Feb 26</td>
<td>Sandy shores</td>
<td>Ch. 13</td>
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<td>9</td>
<td>Mar 3</td>
<td>Muddy shores</td>
<td>Ch. 12</td>
<td>Echinoderms, bryozoans &amp; tunicates</td>
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<td>9</td>
<td>Mar 5</td>
<td>Quiz 4</td>
<td>Ch. 12</td>
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<tr>
<td>10</td>
<td>Mar 10</td>
<td>Coral reefs</td>
<td>Ch. 14</td>
<td>Marine vertebrates</td>
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<tr>
<td>11</td>
<td>Mar 12</td>
<td>Coral reefs</td>
<td>Ch. 14</td>
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<tr>
<td>11</td>
<td>Mar 17</td>
<td>7 pm Final</td>
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C.D. Trowbridge (cdt@uoregon.edu)
Deadlines/Late Work:

- Late notebooks and field trip reports lose one notch per day (A to A-), including weekends/holidays. After a week, late reports earn an F.
- Students are expected to keep copies of all course work until the end of the term.

Syllabus Changes:

This syllabus serves only as a guide to this course. The instructor reserves the right to change any part of this syllabus at any time due to any variety of circumstances. Methods and criteria used to evaluate student performance may also change. If and when changes occur, students will be informed in writing. Students are responsible to keep informed of syllabus changes as they occur by attending and participating class and communicating with the instructor.

Equal Opportunity:

- I support Title IX and have a duty to report relevant information.
- The UO is committed to providing an environment free of all forms of prohibited discrimination and sexual harassment, including sexual assault, domestic and dating violence and gender-based stalking.
- Any UO employee who becomes aware that such behavior is occurring has a duty to report that information to their supervisor or the Office of Affirmative Action and Equal Opportunity. The University Health Center and University Counseling and Testing Center can provide assistance and have a greater ability to work confidentially with students.