OCEAN ENVIRONMENTS
ENVR E-110 - Mondays 7:35-9:30 pm - Harvard Hall 202
Harvard University - Spring Term 2004

Text:
MARINE BIOLOGY - An Ecological Approach
by: James Nybakken
Available at the Harvard Coop in Harvard Square

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Course Requirements:
Undergraduate Students:
1. Attend Class (be sure to sign attendance sheet).
2. Take mid-term and final examinations.
3. Participate in two field trips.
4. Submit three (3) brief 3-5 page papers:
   Topics:
   1 Student’s Choice (with Instructor Approval)
      Topic must be selected by February 23rd
      Due - March 22nd
   2 Independent Field Trip
      (New England Aquarium Trip Suggested)
      Due - April 19th
   3 Cape Cod Coastal Environment Trip
      Class Endeavor - May 9th
      Due - May 17th

Graduate Students:
All of the above, and a graduate research paper (25% of course grade). Notes: (1) Research
papers should be 15-20 pages in length (plus appendices and detailed bibliography).
(2) Proposed topics must be approved by instructor before March 1st. (3) A 1-page progress
report is due by March 22th. (4) Graduate students will summarize their work in a short oral
presentation to the class May 17th.
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<tr>
<th>Date</th>
<th>Topic</th>
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<tr>
<td>2 February 2004</td>
<td>INTRODUCTION TO COURSE OVERVIEW OF OCEANS AND MAJOR GROUPS OF OCEAN LIFE</td>
<td>Buckley</td>
<td>Student Information &amp; Interest Questionnaires</td>
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<tr>
<td>9 February 2004</td>
<td>ESTUARIES AND SALT MARSHES</td>
<td>Buckley</td>
<td>Ch 1 pgs 1-28 / Ch 7 pgs 328-348</td>
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<td>16 February 2004</td>
<td>PRESIDENT’S DAY • NO CLASS</td>
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<td>23 February 2004</td>
<td>SHALLOW WATERS</td>
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<td>1 March 2004</td>
<td>CORAL REEF ECOLOGY</td>
<td>Buckley</td>
<td>Ch 9 Pgs 400-428 Paper/Grad Topic Due</td>
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<td>8 March 2004</td>
<td>CORAL REEF MANAGEMENT AND THE EVERGLADES</td>
<td>Buckley, Cousteau</td>
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<td>15 March 2004</td>
<td>ROCKY SHORES AND ALGAE</td>
<td>Fralick</td>
<td>Ch 5 pgs 195-209</td>
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<td>22 March 2004</td>
<td>MIDTERM EXAMINATION - 75 Minutes GRADUATE STUDENT COLLOQUIUM - 9pm</td>
<td>Zevitas, Chang</td>
<td>Paper # 1 Due / Grad Progress Report</td>
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<td>SPRING VACATION • NO CLASS</td>
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<td>5 April 2004</td>
<td>MARINE FOULERS &amp; BIODETERIORATION</td>
<td>Zevitas</td>
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<td>12 April 2004</td>
<td>MID-OCEAN LIFE / PLANKTON</td>
<td>Madin</td>
<td>Ch 2 pgs 38-89</td>
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<td>19 April 2004</td>
<td>FISHERIES &amp; AQUACULTURE AND MOLLUSKS</td>
<td>Buckley</td>
<td>Ch 3 pgs 94-131 Paper # 2 Due</td>
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<td>26 April 2004</td>
<td>UNDERWATER SYMBIOSIS 3 DIMENSIONAL IMAGING</td>
<td>Buckley, Jameson</td>
<td>Ch 10 pgs 434-454</td>
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<td>3 May 2004</td>
<td>THE DEEP OCEAN</td>
<td>Zevitas</td>
<td>Ch 4 pgs 133-176</td>
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<td>9 May 2004</td>
<td>FIELD TRIP TO CAPE COD</td>
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<td>OCEAN ECOSYSTEM MANAGEMENT</td>
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<td>Ch 11 pgs 458-491</td>
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<td>FINAL EXAMINATION REVIEW GRADUATE PROJECT PRESENTATIONS</td>
<td>Buckley, Graduate Students</td>
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