Summer 2001 Syllabus

Class:          CH3510 - Physical Chemistry I
Class Hours:    Section 0A - MTWR, 10:00 – 11:35 am
Textbook:       Physical Chemistry, 6th ed. by G. M. Barrow
Instructor:     Doug Fox
Office Hours:   Monday & Wednesday 12:00 pm - 1:00 pm or by appointment
Office/Lab:     Room 701D / Room 612                   E-mail: dmfox@mtu.edu

Grading

Your grade will be based on 4 in-class exams (each worth 25% of your grade). I will be using a straight scale of 90% - A, 87% - AB, 80% - B, 77% - BC, 70% - C, 67% - CD, 60% - D, <60% - F.

Exams

The exams will be given in class on Monday June 4, Tuesday June 12, Wednesday June 20, and Thursday June 28. Exams will cover the material covered in class and in the handouts. You will be responsible for all the material in the handouts even if they are not covered in class. Material covered in the book which is not covered in class or in the handouts will not be on the exam. Exams will be closed-book and closed-notes, but you will be allowed to use one 8.5” x 11” equation sheet.

Homework

Homework problems will be given, but will not be collected. It is to your advantage to try all homework problems, as they will be very similar to the exam questions.
Tentative Schedule

There is a lot of material to be covered in this class, and the pace will be quick. Below is the tentative schedule for the class, but some sections may be skipped due to lack of time:

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<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Reference</th>
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<tbody>
<tr>
<td>1</td>
<td>Gas Laws &amp; Energy</td>
<td>Chpt. 1: 1-9 &amp; Chpt. 2: 1-3</td>
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<tr>
<td>2</td>
<td>1st &amp; 2nd Laws of Thermodynamics</td>
<td>Chpt. 3: 1-3, 7 &amp; Chpt. 4: 1-4</td>
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<td>3</td>
<td>Gibb’s Equations &amp; Applications</td>
<td>Chpt. 5: 1-8; Chpt. 3: 4, 5, 8 &amp;</td>
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<td>4</td>
<td>Equilibrium &amp; Phase Diagrams</td>
<td>Chpt. 5: 5, 10, 11 &amp; Chpt. 7: 1-8</td>
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<td>5</td>
<td>Nonelectrolyte Solutions</td>
<td>Chpt. 6: 1-7</td>
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<td>6</td>
<td>Electrolyte Solutions</td>
<td>Chpt. 8: 1-11</td>
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Reference Materials