CH102 SYLLABUS
Summer 1999

LECTURER: Paul Charlesworth
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TEXT: Chemistry, 6th ed., Raymond Chang

Week 1 & 2:
Chapter 5: Gas Laws 3 hours.
Chapter 11 Intermolecular Forces and Phase Changes. 3 hours.
Problem and Study Session 2 hour.
EXAM I (Chapter 5 & 11) 2 hour (1 hour group and 1 hour individual).

Week 3 & 4:
Chapter 12 Solutions, Concentration Units, and Colligative Properties. 3 hours
Chapter 13: Chemical Reaction Rates. 4 hours.
Chapter 14: Equilibria. 3 hours.
Chapter 18: Thermodynamics (2nd Law) and Free Energy 2 hours.
Problem and Study Session 2 hour.
EXAM II (Chapter 12, 13, 14, & 18) 2 hour (1 hour group and 1 hour individual).

Week 5 & 6:
Chapter 19: Electrochemical Cells, Electrolysis and Corrosion. 3 hours.
Chapter 15: Acids and Bases, pH. 1 hour.
Chapter 24 Organic Chemistry. 4 hours.
Chapter 25 Polymers 3 hours.
Medicinal Chemistry (Drugs) 1 hour.
Problem and Study Session 2 hour.
EXAM II (Chapter 19, 15, 24, 25, and drugs) 2 hour (1 hour group and 1 hour individual).

This is a tentative schedule, not a contract. Although we will attempt to maintain this schedule, it may be subject to change. If I have left anything off, it is because it's a power thing! ☺ If you are not sure, all you have to ask is what Brian Boitano would do!
HOMEWORK

Assigned reading and homework from the text appear within this syllabus. Homework will not be collected. We suggest you try as many exercises as possible and bring any difficulties to recitation classes or the Chemistry Learning Center. Only by practice will you be able to work quickly and accurately on quizzes and examinations.

HOMEWORK (Based on Dr. Williams problems from Spring 99):

Chapter 5 Questions: 1, 3, 5, 19, 22, 24, 27, 28-31, 33, 42, 44, 46, 53, 54, 57, 60, 65, 69, 71, 76, 79, 80, 87, 93

Chapter 11 Questions: 1, 2, 3, 7, 9, 10, 13, 15, 16, 17, 18, 49, 50, 52, 53, 59, 64, 67, 71, 72, 77, 86, 91, 94

Chapter 12 Questions: 4-19, 24, 27

Chapter 12 Questions: 39, 41, 43-45, 51, 53, 56, 57, 58, 61, 73, 75

Chapter 13 Questions: 3, 7-11, 15, 17-20

Chapter 13 Questions: 26-28, 31-35, 38, 40, 53, 66a

Chapter 14 Questions: 1, 4, 5, 8, 13

Chapter 14 Questions: 14, 17, 20, 21, 24, 25, 28, 35-39, 42, 48, 49, 51-56, 59, 60

Chapter 18 Questions: 2, 3, 5, 7, 9, 10

Chapter 18 Questions: 12, 13, 16, 17, 20, 23, 24, 27, 29

Chapter 19 Questions: 3-5, 12, 14, 16

Chapter 15 Questions: 11, 13, 14, 17-21, 24, 25

Chapter 19 Questions: 24, 43, 44, 45, 46, 52, 54, 57, 59

Chapter 24 Questions: 1, 3, 11, 12, 15, 26 (omit f)

Chapter 24 Questions: 34, 35, 36, 38, 42, 46, 48

Chapter 25 Questions: 1, 3, 4, 7, 9, 11, 12b, 36

It is our practice to avoid as much misunderstanding or disappointment as possible by providing each of you with a copy of the set of ground rules and information which apply to CH102. Please read them carefully, and if there is anything which is not clear, consult your instructor.
EXAMINATIONS AND QUIZZES

There will be three (3) two-hour exam sessions and no formal final. I reserve the right to ask questions on exams that cover any of the material we have covered and anything from 101, after all you are building an understanding. Each hour exam session will be split into two (2) one-hour sessions. The first hour you will work with a partner (50 points), the second hour you will work alone (100 points). The questions will be of a similar nature on each part.

Quizzes will take the form of three (3) two-hour study/problem sessions (50 points each) which occur the day before each exam. You may work alone, or with partner(s) and may seek assistance from myself or a coach.

GRADING

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
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<tbody>
<tr>
<td>Hour Exam I</td>
<td>150</td>
</tr>
<tr>
<td>Hour Exam II</td>
<td>150</td>
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<tr>
<td>Hour Exam III</td>
<td>150</td>
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<tr>
<td>Quizzes</td>
<td>150</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>600</strong></td>
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Your grade will be based upon the percentage of the total points available that you accumulate. Expect to need over 88% for a grade A and a minimum of 50% for a grade D.

ABSENCE POLICY

An UNexcused absence is an automatic zero (and a beating from your exam partner who may also recieve a zero) for any exam that is missed. An excused absence may granted by the Office of Student Affairs or your instructor. If you know that you will have an excused absence on a day that an exam is scheduled (university sponsored athletic event, religious holiday), you are required to make arrangements as early as possible in advance of the exam date. Other examples of excused absences granted in the past are serious illness or a death in the family. Excused absences will not be given to travel home or to attend a social event. Plan to take your exams at the scheduled time.

ACADEMIC INTEGRITY

Both students and faculty are responsible for insuring the academic integrity of the University according to the procedures in "Academic Integrity at MTU - A Guide for Students and Faculty." Specific violations in this course would be the intentional use of any unauthorized study aids, equipment, or another's work during an examination (cheating) or allowing/helping another individual to cheat (facilitating academic dishonesty). Possible sanctions include an academic integrity warning, an "F" grade indicating failure due to academic dishonesty, suspension or expulsion. I don't have a policy of standing over your shoulder, please don't give me a reason to develop one!

MTU complies with all federal and state laws and regulations regarding discrimination, including the Americans with Disabilities Act of 1990 (ADA). If you have a disability and need a reasonable accommodation for equal access to education or services at MTU, please call Dr. Gloria Melton, Associate Dean of Students, at 7-2212.