CH1120 Studio Chemistry
Spring Semester, 2007

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Laboratory: Matthew Seguin  Email: mjseguin@mtu.edu
CLC: Ms. Lois Blau  206 Chem Sci  Email: lablau@mtu.edu
Office Hours: Monday and Wednesday from 1:00pm to 3:00pm, or by appointment.
Text: Chemistry the Central Science, 10th ed., Brown, LeMay, & Bursten

CLASS SCHEDULE: Is designed to provide you with a guide to the class material so that you may read the relevant chapters prior to the class and again after the class. The dates are approximate and do not represent an exact schedule.

Week 01: Chapter 14 and Check-in
  Reaction Rates and Rate Laws (14.1 - 14.3)
  Time Dependence of Reaction Rates (14.4)

Week 02: Chapter 14
  Temperature Dependence of Reaction Rates (14.5)
  Reaction Mechanisms (14.6)

Week 03: Chapter 15
  Equilibrium and Equilibrium Constants (15.1 - 15.4)
  Working with Equilibrium and Factors Affecting Equilibrium (15.4 - 15.7)

Week 04: Chapter 15 or Chapter 16
  Factors Affecting Equilibrium and Acid-Base Concept (16.1 - 16.4)

Winter Carnival - No Class Thursday

Week 05: Chapter 16
  pH of Strong and Weak Acids (16.1 - 16.6)
  Acid-Base Properties of Salts (16.8 - 16.9)

Week 06: Chapter 17
  Common Ion Effect and Buffers (17.1 - 17.3)
  Solubility Equilibria (17.4 - 17.6)

Week 07: Exam 01 (Tues-Written and Thur-Practical)

Spring Break

Week 08 - Week 14: Potentially Organic and Biochemistry Brewing Project.
SUGGESTED TEXTBOOK PROBLEMS: It is expected that you will successfully complete the even numbered (red) end-of-chapter problems. Failure to do so could seriously impact your understanding of material in this class, as some found out last semester. If you have difficulties with these problems you should seek help from Matt, the CLC Coaches, or myself. Suggested problems will be distributed during class, you should work through them.

EXAMINATIONS: There will be two written exams worth 100 points each, and two practical exams worth 100 points each. The written examinations are scheduled for weeks 7 and 13, and the practical exams are scheduled for weeks 7 and 14. The second set of exams may be replaced by a project and presentation.

QUIZZES: In addition to the exams, we will have weekly take-home quizzes. These will be distributed on Thursday (starting second week) and collected at the end of class on the following Tuesday. We expect to have them graded within one week. Each quiz will be worth 25 points, and we drop one quiz with the lowest score.

LAB REPORTS: We will collect a laboratory report for each of your Thursday laboratory experiments, except weeks when we have carnival, exams, or checkout. It is expected that we will collect 10 reports and each will be worth 25 points. Guidance will be provided about how to write these reports. The report will be collected at the end of the Thursday Class, one week following the experiment.

GRADING:
- Lab Reports 250
- Quizzes 250
- Exams / Project 400
- 900

Your grade will be based upon the percentage of the total points available that you accumulate. Improvements throughout the term will be taken into consideration when grades are assigned. The pass mark for this class is currently set at 60%, a grade C is set at 70%, a Grade B is set at 80%, and a Grade A is set at 90%.

REDINOTES: The class PowerPoint slides will be distributed in class. These notes are NOT designed to replace taking good notes, but they will reduce your need to copy everything from the slides and so allow you to pay more attention to classroom discussion.
CLASS SCHEDULE AND ABSENCE POLICY: The class meets two times per week on Tuesday and Thursday in ChemSci 708 at 2:05 PM. We will not have a class on the Thursday of Winter Carnival.

All assignments must be submitted before 5:00pm on their due date. Quizzes are distributed on Thursday and collected on the following Tuesday, giving about 5 days. Laboratory Reports are collected on the Thursday following an Experiment, giving about 7 days. If you require an extension, for a university sanctioned reason, you must request that extension when the assignment is distributed, not when it is due. Late assignments will be penalized 10% of the assignment value per day. Therefore a 25-point assignment that is 5 working days late would be worth a maximum of 12.5 points.

For exams, an UNexcused absence is an automatic zero for any exam that is missed. The Office of Student Affairs or your instructor may grant an excused absence. If you know that you will have an official university excused absence on a day that an exam is scheduled (university athletic event or religious holiday), you are required to make arrangements as early as possible in advance of the exam date. Failure to provide at least one weeks notice will result in your misery. Excused absences will not be given to travel home or to attend a social event. Plan to take your exam at the scheduled time. If you believe you are too sick to take an exam, you must have a doctors note stating your illness prevents (or prevented) you from taking the exam, not simply that you visited the doctors office.

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.

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 2212.