Course Syllabus

University Chemistry II

Introduction:
Welcome to University Chemistry II. This syllabus will provide only basic information about this course. More detailed information will be provided online. The prerequisite for this class is successful completion of University Chemistry I, or an equivalent.

Class Time Schedule:
Lecture: Monday and Wednesday in Fisher 135 at 12:05 pm.
Recitation and Laboratory: Depend on your personal schedule.

Instructors:
Lecture:
Dr Paul Charlesworth
Assistant Professor of Chemistry
701c Chemistry Department
Email: pcharles@mtu.edu
Tel: 906-487-2702

Laboratory:
Lorri Reilly
University Chemistry Lab Supervisor
508A Chemistry Department
Email: lareilly@mtu.edu
Tel: 906-487-2044

Grading:
The grade structure and grade scale will be displayed on the class Web page and will be based upon that used in University Chemistry I. The grade will be divided 25% from laboratory work and 75% from lecture work. You cannot pass one part of the class without the other. YOU MUST PASS BOTH PARTS OF THE COURSE; if you fail one section, you fail the whole course.

- Online Quizzes: 100pts.
- Recitation Quizzes: 100pts.
- Hour Exams: 200pts.
- Final Exams: 200pts
- ACS Exam: 100pts
- Discretionary: 50pts
- Laboratory: 250pts.

Exams:
There will be no make-up exams or quizzes for this course. A university recognized absence must be requested prior to missing any class materials or assignments. After-the-fact requests will be at the instructor’s discretion.

- There will be two 1-hour exams. These exams are scheduled for 6-8pm on Thursday March 01, 2001 and Thursday April 26, 2001.
- There will be one 1-hour ACS exam. This exam will be during the first part of the final exam.
- The final exam will be divided into 1-hour written and 1-hour multiple-choice components.
- A 3 x 5 inch card, which is HANDWRITTEN, will be permitted for all exams except the ACS exam.
- You may use a calculator in ALL exams.
Chemistry Learning Center:
The Chemistry Learning Center hours are posted on the CLC door. The CLC is a valuable resource; please make use of it. I will hold office hours in the CLC on one or two nights per week.

WebCT:
WebCT will again be an integral part of this class. There will be RediNotes for download, quizzes, exams, answer keys, and other online materials. Following complaints from about 5% of the CH1110 class I have decided to make WebCT optional. If you do not wish to use WebCT for this class, I will provide a document for you to formally opt out of WebCT for this semester. All PDF based handouts normally available though WebCT will be available through the Library.

Course Outline:
We will attempt to cover the following material. Because we will only have two lectures per week, this outline is only a guide.

- Chapter 12: Chemical Kinetics – all sections
- Chapter 13: Chemical Equilibrium – all sections
- Chapter 15: Aqueous Equilibria I, Acids and Bases – all section
- Chapter 16: Aqueous Equilibria II. Applications – exclude 16.15
- Chapter 17: Enthalpy, Entropy, and Spontaneous Processes – all sections
- Chapter 18: Electrochemistry – Sections 18.6 and 18.7
- Chapter 20: Transition Elements and Coordination Chemistry – all sections
- Chapter 23: Organic Chemistry – all sections
- Chapter 24: Biochemistry – all sections

Note: Chapters 14, 19, and 20 will be treated from an experimental standpoint during your laboratories, as will analytical aspects of chemistry. Topics covered in laboratory will also form part of your lecture/classroom assessment. If time permits, we will also overview chapters 14, 19, and 21 during class, to direct your reading.

Practice Problems:
The instructor will develop a set of worksheets targeting important material from each chapter and provide these through WebCT and the library. Answer keys to these worksheets will be provided as time permits. In addition to these questions, you should attempt as many textbook problems as you feel are needed to help you understand the material. In the past we have listed these, but for this semester we are leaving this for you to decide. Suggested problems will be listed in WebCT throughout the semester to help guide your reading.

Office Hours:
Open-door policy Monday, Tuesday, and Wednesday afternoons. Other times by appointment. Monday and/or Tuesday nights I will spend time in the Chemistry Learning Center from about 6:30/7:00pm onward to answer questions.