CHEM 2452 ORGANIC CHEMISTRY

SPRING QUARTER, 2004

Instructor: Joseph M. Hornback

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Text: "Organic Chemistry", by Joseph M. Hornback

Problem There is no formal recitation associated with this class. There will be no weekly quizzes. Each week there will be a problem session on Tuesday at 8:00 AM. During these sessions the instructor will go over the homework

problems and answer any questions you have about them or the previous week's lecture. Attendance at these sessions is optional, but if you are having trouble understanding something, try to come to the help session.

If you have a conflict, make an appointment with the instructor.

Homework: In the lecture outline you will find a set of homework problems listed for

each chapter. These problems are to be turned in at the lecture designated in this syllabus. Working these problems is the best way to learn the material and to prepare for the exams since the exam problems will be similar to the homework problems. Working the problems also tells

you whether you really understand the material or not.

It is important to keep up with the material as it is covered in class. Read your book and work the appropriate problems soon after the

material is covered in class. If you fall behind, you will make the class

much more difficult for yourself.

Exams: There will be three 50 min. exams during the quarter and a cumulative

final exam, each worth 200 points. If your final exam score is higher than one of your other exam scores, that exam score will be dropped and your final will count double. **There will be no make-up exams.** If you miss an

exam, for any reason, it will have to count as the dropped exam.

Grading: Your final grade will be based on a maximum of 870 points, distributed as

follows: homework problems (7 sets at 10 points/set), 70 points; hour

exams and final exam. 800 points.

SPRING, 2004 Tentative Lecture Outline

DATE	TOPIC	PROBLEMS
Mar. 22	Chapter 9 Synthetic Uses of Substitution and Elimination Reactions	Read pp. 345-392 Problems: 1-7, 8acd, 13, 14, 15a, 16-31, 32c-h, 33c-r, 34a-i, 35, 37, 38, 42. Due on April 9.
Mar. 24	continue	
Mar. 26	continue	
Mar. 29	continue	
Mar. 31	continue	
Apr. 2	Chapter 10 Additions to Carbon- Carbon Double and Triple Bonds	Read pp. 401-452 Problems: 1, 2, 3abdef, 4bcd, 5-7, 9bc, 10, 11, 13-15, 17bd, 18, 19bc, 22-26, 27abd, 28-32, 34, 35, 37, 44, 45. Due on April 18.
Apr. 5	continue	
Apr. 7	continue	
Apr. 9	continue	
Apr. 12	Chapter 12 Structure Determination by Spectroscopy I: Infrared and Nuclear Magnetic Resonance Spectroscopy	Read pp. 497-587 Problem Set A: 5, 6, 8bcdef, 9, 11, 12bcd. Due on April 25.
Apr. 14	EXAM 1	Chapters 9 and 10
Apr. 16	continue Chapter 12	
Apr. 19	continue	
Apr. 21	continue	Problem Set B: 14, 15bcdef, 16abef, 17, 18, 19bcdef, 20bcdef, 21-27, 29, 30, 34, 36, 37-40. Due on May 9.

Apr. 23	continue	
Apr. 26	continue	
Apr. 28	continue	
Apr. 30	continue	
May 3	Chapter 13 Structure Determination by Spectroscopy II: Ultraviolet-Visible Spectroscopy and Mass Spectrometry	Read pp. 608-627 Problems: 10-14, 18-27. Due on May 12.
May 5	Chapter 11 Functional Groups and Nomenclature II	Read pp. 461-492 Problems: 1-4, 7-12, 14, 15, 19-23. Due on May 19.
May 7	continue	
May 10	Chapter 14 Additions to the Carbonyl Group	Read pp. 635-682 Problems: 1, 2, 4-6, 7abd, 8-10, 12, 13, 15-28, 37, 41. Due on June 2.
May 12	EXAM 2	Chapters 12 and 13
May 14	continue Chapter 14	
May 17	continue	
May 19	continue	
May 21	continue	
May 24	continue	
May 26	EXAM 3	Chapters 11 and 14
May 28	review	
June 1	FINAL EXAM 8:00 - 9:45	Cumulative