

Organic Chemistry II

Chemistry 282

Section: D100

Term: 2001 Spring

Instructor: Dr. E. Plettner. Office: C-9016A. Phone: 291-3586.

Discussion Topics: General Course Description:

Polyfunctional organic compounds and complex organic reactions.
Introduction to natural products.

2 lecture hours/week; 1 hour/week tutorial; 0 hours/week laboratory.

WeekTopicChapter

Week 1. Conjugated dienes, Diels-Alder reaction Chapter 22.

Week 2. Benzene, electrophilic aromatic substitution Chapters. 20.1, 20.2.

Week 3. Phenols, benzylic substitution Chapters. 19.5, 20.3, 19.6.

Week 4. Spectroscopy review. Chapters. 12-14.

MIDTERM EXAM (tentative*)

Week 5/6. Amines, diazo compounds. Chapter 21.

Weeks 7. Carboxylic acid derivatives (review), Amides. Chapters 16-17.

Week 8. Carbonyl compounds: Grignard reactions Chapters 7.7, 15.6, 17.9.

Organic Chemistry II

alpha-Halogenation, enamines Chapters 15.12, 18.5.

MIDTERM EXAM (tentative*)

Week 9. Enolates, aldol reaction, Michael addition, Chapters 18.1-18.4, 18.8.

Claisen condensation

Week 10. Acetoacetic and malonic ester syntheses Chapters 18.6, 18.7.

Week 11. Carbohydrates Chapter 24.

Week 12. Amino acids, proteins Chapter 27.

Week 13. Nucleic acids. REVIEW. Chapter 28.

Grading: Two midterm exams (50%)

Final exam (50%)

Required Texts: Brown & Foote, "Organic Chemistry", 2nd Ed. 1998. Saunders College Publishing.

Recommended Texts: Any introductory organic chemistry text.

Materials/Supplies: None

Prerequisite/Corequisite: Prerequisite: CHEM 281 (or 150/155). CHEM 286 should be taken concurrently.

Organic Chemistry II

Notes: * Midterm exam dates will be decided by the class during the second week.

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