

Lecture Slides

Week of 12/5:



Continue Chapter 11

Change in Office Hours for Monday: 1:45-2:45 PM

[Reaction Guide for Chapters 10 and 11](#)

Summary of Ozonolysis

To prepare for class, read through Chapter 11 except the following sections: 11.4b, 11.5b, 11.8, 11.9, and 11.12. You will also not be tested on or ganocuprates in 11.4c, or KMnO_4 in 11.6c.

Reminder: Exam 3 is on Monday, December 5th! See the [Exams Page](#) for details.

Week of 11/28:



Continue Chapter 10. Chapter 11 starts Friday

[Reaction Guide for Chapters 10 and 11](#)

To prepare for class, read through Chapter 11 except the following sections: 11.4b, 11.5b, 11.8, 11.9, and 11.12. You will also not be tested on or ganocuprates in 11.4c, or KMnO_4 in 11.6c.

Reminder: Exam 3 is on Monday, December 5th! See the [Exams Page](#) for details.

Week of 11/21:



Chapter 10

To prepare for class, read through Chapter 10.

Week of 11/14:



Continue Chapter 9

Week of 11/7:



Chapter 9

To prepare for class, read through Chapter 9, except sections 9.4 and 9.11. You will also not be tested on the McLafferty rearrangement (pg 378) or the Karplus curve (pg 411).

Lecture Slides for Mass Spectrometry: [PPT PDF](#)

Lecture Slides for IR: [PPT PDF](#)

Lecture Slides for ^1H NMR: [PPT PDF](#)

Lecture Slides for ^{13}C NMR: [PPT PDF](#)

[Mass spec handout](#)

[IR absorbances handout](#)

Week of 10/31:



Chapter 8

To prepare for class, read through Chapter 8, except sections 8.6-8.7. You will also not be tested on the Hofmann Elimination or the E1cB mechanism on pgs. 342-345.

Exam 2 is on Thursday, November 3rd! See the [Exams Page](#) for details.

[Handout on rules for SN1-SN2-E1-E2 reactions](#)

Week of 10/24:



Continue Chapter 7

To prepare for class, read through Chapter 7. You will not be tested specifically on the following topics/sections: section 7.2c, entropy in 7.4b, rate constants in 7.4d, solvent effects on SN2 reactions in 7.5h. You will also not be tested on the following reagents (as part of the Chapter 7 material): alcohol chlorination using thionyl chloride (pg 300), triphenylphosphine/CCl4 (pg 301), or PCl5 (pg 301-2).

Information on carbocation rearrangements in SN1 reactions can be found in section 8.5 (we will cover these concepts as part of the Chapter 7 material).

[Handout on carbocation rearrangements](#)

[Handout on rules for SN1-SN2-E1-E2 reactions](#)

Week of 10/19:



Chapter 7

To prepare for class, read through Chapter 7. You will not be tested specifically on the following topics/sections: section 7.2c, entropy in 7.4b, rate constants in 7.4d, solvent effects on SN2 reactions in 7.5h. You will also not be tested on the following reagents (as part of the Chapter 7 material): alcohol chlorination using thionyl chloride (pg 300), triphenylphosphine/CCl4 (pg 301), or PCl5 (pg 301-2).

Information on carbocation rearrangements in SN1 reactions can be found in section 8.5 (we will cover these concepts as part of the Chapter 7 material).

Week of 10/10:



Chapter 6, Chapter 7 starts Friday

To prepare for class, read through Chapter 6, except sections 6.6, 6.8, 6.9. In addition, we will not cover nitrogen inversion on pg 240-241.

Get the lecture slides (Chapter 6): [PPT PDF](#)

Week of 10/3:



Chapter 5, Chapter 6 starts Friday

To prepare for class, read through Chapter 5. *Note: you will not be expected to systematically name bicyclic systems, which is described in 5.7.*

Get the lecture slides (Chapter 5): [PPT PDF](#)

Exam 1 is on Wednesday, October 5th! See the [Exams Page](#) for details.

Week of 9/26:



Chapter 4, Chapter 5 starts Friday

To prepare for class, read through Chapter 4, except sections 4.7 and 4.10.

Get the lecture slides: [PPT PDF](#)

Note: My office hours this week on Monday are from 2:00-3:00 (there is a 3pm physics seminar that is going to be good!)

Week of 9/19:



Chapter 3

To prepare for class, read through Chapter 3, except sections 3.16-3.22.

Get the lecture slides: [PPT PDF](#)

[Degrees of Unsaturation](#) handout

Week of 9/12:



Chapter 2

To prepare for class, read through Chapter 2, except section 2.15.

Get the lecture slides: [PPT PDF](#)

Lab starts this week! Make sure to print the Lab Syllabus and Experiment 1, read them, and bring them to your first lab meeting

Week of 9/7:



Chapter 1

To prepare for class, read through Chapter 1, except for the description of *weighting factor* from pages 28-30.

Get the lecture slides: [PPT PDF](#)

[Lewis Structure Help](#) (Need-Have-Shared-Unbonded Algorithm)

Note: Lab starts the week of 9/12. Make sure to print the Lab Syllabus and Experiment 1, read them, and bring them to your first lab meeting