

**Organic Chemistry II**

Chemistry 282

Section: D100

Term: 2003 Spring

Instructor: Dr. V. Williams.

Office: C-9016. Phone: 291-3352. e-mail:vancew@sfu.ca.

Discussion Topics: General Course Description:

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

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

Week

Topics

Chapter

1 Conjugated dienes, Diels-Alder reaction 14.1-14.9

2 Electrophilic aromatic substitution 16.1-16.7, 16.12

3 Phenols, benzylic substitution 16.8, 16.10, 17

4 Arene spectra, mass spectrometry 15.10, 12.1-12.4

MIDTERM EXAM

5/6 Amines, and amides 24, 21.2, 21.7

7 Diazo compounds, pyridine, pyrrole 24.8, 15.7, 28.1-28.6

## Organic Chemistry II

8 Organometallic compounds, Grignard reactions 10.8-10.9, 19.8

Carbonyl alpha-substitution reactions, enols 22

9 Carbonyl condensation reactions, enamines 23

### MIDTERM EXAM

10/11 Carbohydrates 25

12 Amino acids, proteins 26

13 Nucleic acids, review 28.8-28.14

Grading: Two midterm exams (45%)

Final exam (45%)

Problem sets (10%)

Required Texts: John McMurry, "Organic Chemistry", 5th Ed. 2000. Brooks/Cole.

Recommended Texts: Any introductory organic chemistry text.

Materials/Supplies: A molecular model set is useful.

Prerequisite/Corequisite: Prerequisite: CHEM 281. CHEM 286 should be taken concurrently.

## Organic Chemistry II

Notes: None

This outline is derived from a course outline repository database that was maintained by SFU Student Services and the University's IT Services Department. The database was retired in 2014 and the data migrated to SFU Archives in 2015.