

**Syllabus**  
**Organic Chemistry Laboratory**  
**CHE 310L-013**  
**Fall, 2004**

**Time:** 2:00 – 5:00, W

**Place:** SC 465

**Instructor:** William R. Oliver  
SC 449  
572 – 5711  
[Oliver@nku.edu](mailto:Oliver@nku.edu)

**Office Hours:** T, 3:00 – 4:00; W, 10:00 – 12:00; r, 10:45 – 11:45  
Other times as available or by appointment.

**Prerequisite:** CHE 121, 121L

**Text:** *Experiments in Organic Chemistry*, Jonathan Nimitz  
Organic Chemistry Laboratory Supplement (This can be found at  
<http://www.nku.edu/~chemistry/courseinfo.htm>)

**Schedule**

<b>Date</b>	<b>Experiment</b>	<b>Reference*</b>
08/25	Check in/Melting Point	Pp. 26-27, Supplement
09/01	Recrystallization	Pp. 22-33, Supplement
09/08	Unknown – Purification and Identification	Same as 09/01
09/15	Fractional Distillation	Pp. 34-44, Supplement
09/22	Acid-Base Extraction	Pp. 45-61, Supplement
09/29	Thin-Layer Chromatography	Pp. 63-71, Supplement
10/06	Column Chromatography	Pp. 72-76, Supplement
10/13	Isolation of Natural Flavors and Fragrances	Pp. 196-207
10/20	<b>Mid-term Exam</b>	
10/27	Molecular Modeling	Supplement
11/03	Nucleophilic Substitution	Pp. 120-124
11/10	Bromination/Stereochemistry	Pp. 95-101
11/17	Dehydrohalogenation	Supplement
11/24	Thanksgiving holiday	
10/01	Carbocation Rearrangement	Pp. 246-252
10/08	<b>Final Exam (comprehensive);</b> check out	

\*The page numbers refer to Nimitz; Supplement refers to the web course supplement. *Students must print out the applicable material for each lab and bring it to class. Students should have read Pp. 1-21 of Nimitz before the second lab meeting.*

**Equipment:** Students are required to have a laboratory research notebook (see accompanying pages) and safety glasses.

**Honor Code:** Students are expected to conform to the Student Honor Code, which may be found in the Student Handbook or online at the Dean of Students Web page. Academic dishonesty in this class will result in dismissal from class and an F in the course.

**Important Dates:** August 23, First day of class  
September 11, Last day to drop with no record  
October 18-19, Fall break  
October 30, Last day to drop with a grade of W  
December 8, Final Exam

### **Exams and Grading**

Mid-term exam	20%
Final exam	20%
Laboratory Notebook	20%
Quizzes	20%
Laboratory Technique	20%

The quizzes will be given from time to time at the beginning of the lab, in order to test your preparation for that experiment. The grade for lab technique will be the instructor's assessment of your preparation, understanding, efficiency, and safety in carrying out lab procedures. See the attachment for more information about the laboratory notebook.

**N.B.** All items on this syllabus are subject to change by the instructor. *No cell phones or pagers will ring or be used in the class.*