

**Course:** Chemistry 447, "Organic Structure Analysis Laboratory"  
**Term:** Spring, 2003  
**Instructor:** Professor Michael P. Doyle  
**Office:** OC 328  
**Office Hours:** Call Miss Erin Johnson at 626-7960  
**Phone:** 626-4815  
**e-mail:** mdoyle@u.arizona.edu  
**Lectures:** T 5:00-5:50 in Room 209 OC, unless announced otherwise  
**Laboratory:** Room 360 Koffler. An average of 8 hours of laboratory work per week will likely be necessary. Open hours will include:

Monday 1:00-9:50 PM  
 Tuesday 1:00-4:50 PM  
 Tuesday 6:00-9:50 PM  
 Wednesday 6:00-9:50 PM  
 Thursday 1:00-4:50 PM

**Texts:** *Introduction to Organic Laboratory Techniques*, 3rd Ed., by Pavia, Lampman, Kriz, and Engel, Saunders College Publishing, 1999.  
*Introduction to Spectroscopy*, 3rd Ed., by Pavia, Lampman, and Kriz, Brooks/Cole, 2001.

**You will also need a bound laboratory notebook**

Due dates for reports on unknowns and examination schedule:

DUE	DATE	POINTS
Take-Home Spectra Exam I	Tuesday, February 18, 2003	25
Structure Report for Unknown A	Tuesday, February 18, 2003	100
Structure Report for Unknown B	Tuesday, March 4, 2003	100
Take-Home Spectra Exam II	Tuesday, March 11, 2003	50
turn in laboratory notebook	Week of March 24th	50
<b>MIDTERM EXAM</b>	Tuesday, March 25, 2003	100
Structure Report for Unknown C	Tuesday, April 15, 2003	100
Structure Report for Unknown D	Tuesday, April 8, 2003	200
Structure Report for Unknown E	Tuesday, May 6, 2003	200
Homework	various	75
turn in laboratory notebook	Tuesday, May 6, 2003	100
<b>FINAL EXAM</b>	Tuesday, May 6, 2003	100

Attendance will be taken. Regular attendance and efficiency in the laboratory will play an important part in your successful completion of the laboratory in the minimum possible time. 10 points will be deducted per week for late reports. While your goal is to determine the structure for each of your unknowns, Structure Reports will be graded mostly on the thoroughness of the case you build for the structure you suggest, the completeness of the characterization, and the depth of your data analysis. Exams will be returned. Regrade requests must be submitted promptly. The policy on grades of incomplete is governed by the University and is detailed in the University Catalog. I will adhere to this written policy.

#### Teaching Assistants

Mr. Haofan Wang  
 CSML 506  
 621-4808  
 haofan@u.arizona.edu

Mr. Scott Meyer  
 CSML 514  
 621-4120  
 scmeyer@u.arizona.edu

#### NMR Personnel

Dr. Neil Jacobsen  
 OC 119  
 621-8146  
 neil@u.arizona.edu

Mr. Jim Cain  
 OC 232  
 626-3173  
 jcain@u.arizona.edu