

SUL ROSS STATE UNIVERSITY
ORGANIC CHEMISTRY 3408 LABORATORY SYLLABUS
Spring 2016

LAB: Organic Chemistry 3408
Room: WSB 305
Times: Wednesday 2:00-4:50 pm

TA: Tres Wright
Office: WSB 308
Hours: TBC
Email: francis.wright@sulross.edu

Laboratory Manual: "Techniques and Experiments for Organic Chemistry" (6th Edition) by A. Ault, **1998**, University Science Books;

Expectations:

- Read over the experiment before lab
- Follow all safety procedures:
 - Shorts and open-toed shoes are **NOT** allowed in lab. If you come to class without appropriate clothing, you will be asked to leave. **NO EXCEPTIONS!**

Attendance:

Coming to lab is mandatory. Be on time and SIGN IN at the beginning of the lab period. Plan to spend the entire period in lab. The TA may deduct points for students who arrive late or leave early.

One laboratory class absence (excluding the safety video) during the semester will be waived with no grade penalty.

If you *miss 3 labs* or more you will receive an automatic *F*.

Assignments:

- Pre-Lab Write Up: Due at the beginning of the lab that the experiment is performed
- Lab Report: Due the lab period after the lab is done

Lab Grading:

- Each experiment is worth 30 points
- These points will come from:
 - The pre-lab (5)
 - Attendance (5)
 - The lab report (20)
- Assignments must be completed and turned in on time
 - Assignments must typed
 - Reports will be due the following week unless told otherwise
 - 10% of the grade will be deducted for assignments not turned in at the beginning of lab. An additional 10% will be deducted for each day that the assignment is late

Pre-Lab Write Up:

- *Aim:* Here you will state the goal of the experiment (in your own words)
- *Reagents:* You will make a list of all of the chemicals used in the experiment along with relevant data (grams, volume, molarity etc.). This is how much the manual calls for.
- *Apparatus:* In this section, you will list all of the equipment that you will use.
- *Method:* This is where you will outline the steps in the experiment. The steps will be put in your own words.

Lab Report:

- *Aim:* Here you will state the goal of the experiment (in your own words)
- *Reagents:* You will make a list of all of the chemicals used in the experiment along with relevant data (grams, volume, molarity etc.). This is how much YOU used, not how much the manual calls for.
- *Apparatus:* In this section, you will list all of the equipment that you used.
- *Method:* This is where you will outline the steps in the experiment. Be sure to note any differences between what you did and what the manual said to do.
- *Data & Observations:* Note the observations that you made during the experiment. What are you findings? (% yield, melting point, etc)

- *Conclusions:* What do you think of the results? Are they what you expected? Why?

Students with Special Needs: Sul Ross State University is committed to equal access in compliance with the Americans With Disabilities Act of 1973. It is the student's responsibility to initiate a request for accessibility services. Students seeking accessibility services must contact Mary Schwartz in Counseling and Accessibility Services, Ferguson Hall, Room 112. The mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas 79832. Telephone: 432-837-8203. E-mail: mschwartz@sulross.edu.

Scholastic Dishonesty: Students who violate the University rules on scholastic dishonesty are subject to penalties, including the possibility of an **F** in the course and/or dismissal from the University.

Chemistry 3408 Lab Schedule

<u>Date</u>	<u>Experiment</u>
January 20	<i>No Laboratory Experiment</i>
January 27	Safety Video, Lab Tour, Equipment Checkout
February 3	Acetanilide (Exp. 42, p. 459)
February 10	2,4-Dinitrobromobenzene (Exp. 46, p. 471)
February 17	Methyl m-nitrobenzene (Exp. 44, p. 464)
February 24	Trans-Stilbene (Exp. 70, p. 519)
March 2	Preparation of Tylenol (Exp. 73, p. 529)
March 9	Methyl Salicylate (Exp. 77, p. 538)
March 16	<i>No laboratory Experiment (Spring Break)</i>
March 23	Coconut Aldehyde I (Exp. 78, p. 541)
March 30	Coconut Aldehyde II (Exp. 79, p. 543)
April 6	MOED (Exp. 106, p. 629)
April 13	MOED (Exp. 107, p. 630)
April 20	Isolation of Ibuprofen from Ibuprofen Tablets (Exp E4, p. 335)
April 27	Lab Cleanup and Final