LABORATORY ASSIGNMENTS 2125

Date	Experiment	Experiment Description	*Post-lab Quest.*
1/18	Check-out, Safety Rules, Mass Spec review, IR, ^{13}C NMR	Read p. 93-101; 107-115	*p. 105 # 1-4, 6* *p. 115 1-20 (evens)*
1/25	pK_a Determination (Exp 23)	Read p. 225-227 Can work in pairs	*p. 227 Post: # 2-4* *Pre: # 1-5*
2/1	^1H NMR	Read p. 125-132	*p. 132* *Post # 1-10*
2/8	Diels-Alder (Exp 32)	Read p. 269-271. Part B Can work in pairs	*p. 272 Post #1- 2* *Pre #1, 4*
2/15	Properties of Alcohols (Exp 18)	Read p. 193-195 All parts Can work in pairs	*p. 195 Post # 2-6* *Pre # 1,5*
2/22	Friedel-Crafts Alkylation (Exp 26)	Read p. 237-240. Part A and B Can work in pairs	*p. 242 Post # 1,3* *Pre# 1-3*
3/1	Acetanilide to *p*-Nitroaniline (Handout)	Read Handouts Can work in pairs	*Handout*
3/8	Midsemester Exam	Covers 1st half labs	
3/15	NO LAB	SPRING BREAK!!!! ENJOY!!!!	
3/22	Dehydration of Alcohol (Exp 20)	Read p. 205-207. Part A Can work in pairs	*p. 208 Post #1,2,8* *Pre #1,2*
3/29	Synthetic Dyes (Handout)	Read Handouts Can work in pairs	*Handout*
4/5	Grignard Reaction (Exp 19)	Read p. 197-202. Part A and C Can work in pairs	*p. 204 Post # 1,2* *Pre # 1-5*
4/12	Prep of Adipic Acid (Exp 21)	Read p. 211-214. Part B Can work in pairs	*p. 217 Post # 2,5* *Pre # 3,4*
4/19	Synthetic Organic Polymers (Exp 44)	Read p. 331-335. Part A and B Can work in pairs	*p. 337 Post #3* *Pre #1-3*
4/26	Properties of Amines (Exp 29)	Read p. 255-258. All parts Can work in pairs	*p. 258 Post # 2-4* *Pre # 1,4*
5/3	Final Exam	Check-in equipment	

GOOD LUCK THIS SEMESTER!!!!!

Organic Chemistry Laboratory 2125 G

Spring 2011

Contact Information

Instructor: Nichole Jackson
Office: WH 126
Phone: (423) 335-6526 Email: njackson@odessa.edu
Office Hours: MW 9:30 – 10:00 AM; M 2:00 – 5:00 PM
TTH 9:30 – 11:30 AM; TH 1:30 – 3:30 PM

Course Information

Department: Physical Sciences
Start Date: 01/18/2011
End Date: 05/13/2011
Modality: Face-to-Face
Credits: 1 hour
Lab: T 1:00 – 4:50 PM

Required Reading/Materials

Bell, Clark, Taylor; *Organic Chemistry Laboratory with Qualitative Analysis;* 3rd Ed., 2001, Harcourt, Inc.

Courses Prerequisites

Course Corequisite: CHEM 2325

SCANS

1, 3, 6, 8, 9

Course Description

Instruction in experimental techniques of modern organic chemistry emphasizing chemical separations and recognizing the functional groups chemically. Stereochemical modeling and the identification of organic unknowns by spectroscopic and chemical methods are also introduced.

Course Objectives & Learning Outcomes

1. Conduct an experiment, collect and analyze data, and interpret results in a laboratory setting.
2. Be able to use modern instrumentation and classical techniques, to design experiments, and to properly record the results of their experiment.
3. Are skilled in problem solving, critical thinking and analytical reasoning.

Course Grade

Reports 70%, Mid-semester Exam 15%, and Final Exam 15%

Reports
Report sheets with the experimental data, calculations, and assigned post laboratory questions will be due at the beginning of the following Tuesday laboratory. These pages should be legible and problems should show units and logic. Points will be deducted for late papers turned in after this deadline. Papers more than **2 days** late will **NOT** be accepted unless special permission has been obtained. Points will also be deducted for unsafe conduct in the laboratory.

Sections of Notebook:

(a) Prelab
(b) Procedure
(c) Reactions (if applicable)
(d) Data
(e) Results
(f) Summary/Conclusions

Missed Laboratory Sessions
You are responsible for making up any missed laboratory sessions. This must be done before the laboratory supplies are put away. Be sure to make arrangements with your instructor on make-ups. The laboratory report is still due at the same time as the rest of your class. If you can't make-up the lab before it is disassembled, special arrangements may have to be made. Remember the mid-semester exam and final exam will include information from laboratories that you have missed. **You will only be allowed to make up 2 missed experiments** regardless of the reasons.

Mid-Semester Exam
Covers the experiments of the first half of the semester. The test will be short answer format similar to the pre and post lab questions.

Final Exam
Covers the experiments of the second half of the semester. The test is short answer format, similar to the pre and post lab questions.

Students with Disability
Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the ADA of 1990. Students with special needs or issues pertaining to access and participation in this class must contact me immediately. Further, you may call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

Learning Resource Center (Library)
The Library, known as the Learning Resources Center, provides research assistance via the LRC's catalog (print books, videos, e-books) and databases (journal and magazine articles). Research guides covering specific subject areas, tutorials, and the "Ask a Librarian " service provide additional help.

Student E-mail
Please access your Odessa College Student E-mail, by following the link to either set up or update your account: http://www.odessa.edu/gmail/. **All assignments or**

correspondence will be submitted using your Odessa College email.

Student Portal
Please access your Odessa College Student E-mail, by following the link to either set up or update your account: http://www.odessa.edu/gmail/. **All assignments or correspondence will be submitted using your Odessa College email.**

Technical Support
For Blackboard username and password help and for help accessing your online course availability and student email account contact the Student Success Center at 432-335-6878 or online at https://www.odessa.edu/dept/ssc/helpdesk_form.htm.

Important School Policies
For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or student's and instructors' right to academic freedom can be found in the Odessa College Student Handbook.