

## CASPER COLLEGE COURSE SYLLABUS

**SEMESTER:** Fall 2015

**COURSE NUMBER & TITLE:** CHEM 2325 01, 02, & 03 CHEMISTRY LABORATORY I

**LECTURE HOURS:** 0      **LABORATORY HOURS:** 3      **CREDITS:** 1

**CLASS TIME:**      **DAYS:** or      **ROOM:** PS 307  
Tues.8:00-10:50(01), Mon. 1:00-3:50(02), Tues. 1:00-3:50(03)

**INSTRUCTOR'S NAME:** E. J. Mechalke, PH. D.

**INSTRUCTOR'S OFFICE:** PS 312

**PHONE:** 268-2450

**OFFICE HOURS:** 9:00-9:50 am on M, W, F, and 10:00-10:50 on Th

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### **COURSE DESCRIPTION:**

This laboratory involves instruction in fundamental organic laboratory techniques including simple syntheses and use of gas chromatography. To be taken concurrently with CHEM 2320 or 2300.

### **PREREQUISITES:**

NONE

### **GENERAL OBJECTIVES:**

Competency in the concepts and techniques listed in the course description.

### **SPECIFIC OBJECTIVES:**

Demonstrated mastery of General Objectives via accurate and precise experimental results and proper communication of them in well written lab notebook reports.

### **METHODOLOGY:**

Performance of experiments and submission of lab notebook and synthesized compounds.

### **EVALUATION CRITERIA:**

Most experiments are worth 100 points. Some longer ones count as 200 points. The Lab Final Exam counts as two experiments.

<u>COURSE AVERAGE</u>	<u>GRADE</u>
90 - 100	A
80 - 89	B
60 - 79	C
50 - 59	D
BELOW 50	F

### **REQUIRED TEXTS, READINGS, MATERIALS:**

Wilcox, 2nd Ed.

Lab notebook

### **LAST DATE TO CHANGE TO AUDIT STATUS OR TO WITHDRAW WITH A "W" GRADE:**

11-12-15

**STUDENT RIGHTS & RESPONSIBILITIES:**

Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College student.

**CHAIN OF COMMAND:** If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head, the Academic Dean, and lastly the Vice President for Academic Affairs.

**ACADEMIC DISHONESTY:** Casper College demands intellectual honesty. Proven dishonesty associated with the academic process can result in the offender failing the course or expulsion from school. See the Casper College Student Code of Conduct.

**ADA Accommodations Policy:** It is the policy of Casper College to provide appropriate accommodations to any student with a documented disability. If you have a need for accommodation in this course, see me as soon as possible.

**Official Means of Communication:** Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly

**TENTATIVE SCHEDULE WITH COURSE CONTENT:**

Week Beginning		Experiment	Topic	Reading
August	24	No Lab	Safety in the Laboratory	3-7
August	31	Check-in, Safety, 8.1, 8.4A	General Remarks Melting Points	10-18
September	7	No Lab Labor Day		84-89
September	14	8.4A continued	Continued	
	21	5.4	Distillation	43-51
September	28	5.4	Continued	51-69
October	5	8.4C & D	Recrystallization	89-102
	12	8.4C & D continued	Continued	
	19	No Lab		
	26	21.5A	Preparation of Cyclohexene	327-333
November	2	21.5A continued	Preparation of Cyclohexene	
November	9	25.3	Preparation of Cyclohexanone	353-358
	16	25.3 continued	continued	
	23	9.7 B Extractions	Extractions	114-121
December	1	<b>LAB FINAL EXAM</b>		