

COURSE INTRODUCTION, SCHEDULE, AND GENERAL INFORMATION

Instructor

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Required Material

- ❑ **Laboratory Manual:** Doxsee and Hutchinson, *Green Organic Chemistry: Strategies, Tools, and Laboratory Experiments*
- ❑ **Safety goggles:** Safety goggles can be purchased with your textbook in the school bookstore. Bring your safety goggle voucher to the first lab session to receive your goggles. You must have splash-proof safety goggles to participate in laboratory.
- ❑ **Laboratory Notebook:** Chemistry Laboratory Composition Notebook, 8x10. This notebook must be bound. An old notebook from another class may be used.

Grading:

<u>Point Breakdown</u>		<u>Grade Breakdown</u>			
Pre-Labs	25 points	A	202-225	C	157-173
Lab reports	175 points	B+	196-201	D+	151-156
<u>Comprehensive Final</u>	<u>25 points</u>	B	180-195	D	135-150
Total points	225 points	C+	174-179	F	<134

Course Information

- This lab will actively use the Moodle course software. Labs not included in the lab manual will have their protocols posted on Moodle.
- Missing more than TWO unexcused lab sessions may result in a failing grade subject to instructor discretion. Laboratory sessions MUST BE made up during the schedule. That is, if you miss a lab during Week 3, then you MUST reschedule a make-up lab with an instructor in another section during Week 3
- Pre-lab preparation: Most labs will require pre-lab preparation. This will include online videos for you to watch and online quizzes that must be passed before the lab can be started. These short videos will introduce you to various aspects of the week's lab and should be watched before taking the online quiz. In addition, the lab manual will not be allowed in the lab during the class period. This means you must transcribe your protocols into a lab manual before coming to lab. If a worksheet is to be brought with you to lab, it will indicated on the Moodle page for that week.
- Laboratory Reports: Laboratory reports/assignments/write-ups will be discussed on the day of lab and a due date will follow the assignment. The information regarding lab reports, grading rubrics, and additional assignments will be posted on the lab section Moodle page
- Lab Practicals: In order to assess whether certain technical skills taught in lab have been learned, the 9th and 10th week of the lab will use lab practical exams. All students will be graded on their ability to perform specific lab skills taught during the quarter and emphasized in some of the videos. A list of the skill practicals and their rubrics will be available a few weeks before the exam.
- Participation/Attitude in Laboratory: Cleanliness and safe practices are required in the lab. Ask the instructor if you are unsure about how to do something or if you do not understand the reason for a procedure. Think about the chemistry that is happening in each step of an experiment. Anticipate outcomes with special attention to safety issues. Thorough and efficient operation in the lab is expected.
- Safety: All safety rules must be followed at all times. Failure to comply will result in immediate expulsion from the lab. In some cases, a grade penalty will be accrued for failure to follow safety rules. Specific safety issues will be addressed in detail the day of lab. All accidents and injuries, no matter how minor, must be immediately reported to the instructor.

Academic and Professional Integrity

The methods used in this course presuppose that students will uphold the highest standards of professional and academic integrity. Definitions and punishments for academic misconduct are described in the Student handbook

Disability Accommodation

If you require disability accommodations, contact The Learning Center (contact by phone: (812) 877-8876, Campus mail: box # 82, and Email: learningcenter@rose-hulman.edu) to make initial arrangements and then contact the instructor.

**CHEM 252L: Organic Chemistry II
LAB SCHEDULE FOR WINTER QUARTER 2011/12**

Week	Experiment	Lab Assignments
1	Check-In Synthesis and TLC of Tetraphenylporphyrin	Prelab quiz (5 pts)
2	Column Chromatography of Tetraphenylporphyrin	Prelab quiz (5 pts) Lab report (50 pts)
3	Biosynthesis of Ethanol from Molasses	Prelab quiz (5 pts) Lab report (25 pts)
4	NO LABORATORY SESSIONS	
5	Oxidative Coupling of Alkynes	Prelab quiz (5 pts) Lab report (25 pts)
6	NMR Spectroscopy	Lab report (25 pts)
7	Electrophilic Iodination of Vanillin	Prelab quiz (5 pts)
8	Electrophilic Iodination of Vanillin	Lab report (50 pts)
9	LABORATORY PRACTICUM	(25 points)
10	LABORATORY PRACTICUM	