

CHEM 253: Organic Chemistry II Lab

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Lab Time: 10.05am – 2.00pm on the days listed in the schedule below

Grading

There will be nine labs this semester. For each lab you will take a pre-lab quiz (20 pts) on Blackboard prior to the lab as well as turn in lab report-sheets (80 pts) to your TA on the day of the lab (prior to leaving), so that each lab is worth 100 pts total.

720 Pts – Lab Report Sheets (9 Experiments, 80 pts each)
180 Pts – Pre-Lab Discussion Quizzes (9 Quizzes, 20 pts each)
200 Pts – Lab Midterm (covering labs 1-5)
400 Pts – Final Exam (covering labs 1-9)
1,500 Points Total

The traditional 90%/80%/70%/60% grade cutoffs will be followed in the course.

Important Dates

June 3rd – Add/Drop Deadline
June 6th – Must pass first pre-lab quiz AND lab safety quiz by 10.00am
June 17th – Withdraw Deadline

Lab Safety Training

Must be performed online prior to 10.00am on Monday, June 6th. You were enrolled in a separate Blackboard course for the safety training. The name of the course on Blackboard is:

“Online Safety Training Spring 2022, NA-JCMOLLOY-02-JAN2022.”

Please take the lab safety course on Blackboard and pass the lab safety quiz with at least 80%.

Each lab day by 10.00am – Complete the Blackboard **pre-lab quiz** by this time each lab day. You must successfully pass the quiz by this time each lab day to be permitted into the lab.

Passing the quiz means you have to answer every single question correctly. While the quizzes are ultimately worth 20 pts, they will be graded on a 100 pt scale. You have unlimited attempts, but you will lose 5% of the points for each additional attempt. So please make sure you interact with the pre-lab materials thoroughly before taking the quiz!

e.g.: there were 10 questions and it took you 3 attempts (i.e. 2 additional attempts) to fully pass.

% quiz grade = $100\% - 2 \times 5\% = 90\%$. In this scenario you would have earned 18pts/ 20pts.

Failure to successfully pass the pre-lab quiz by the start time of your lab section will result in exclusion from that day's lab and will count as one absence.

Dates	#	Experiment	Assessment
Day 1 Monday, June 6 th	1	Esterification	Pre-lab Quiz AND safety training due June 6 th at 10.00am
Day 2 Tuesday, June 7 th	2	Lactose	Pre-lab Quiz due June 7 th at 10.00am
Day 3 Wednesday, June 8 th	3	Kinetic vs Thermodynamic Control	Pre-lab Quiz due June 8 th at 10.00am
Day 4 Monday, June 13 th	4AB	Aspirin Parts A&B	Pre-lab Quiz due June 13 th at 10.00am
Day 5 Tuesday, June 14 th	5A	Grignard Part A	Pre-lab Quiz due June 14 th at 10.00am
Day 6 Wednesday, June 15 th	5B	<i>Midterm Exam</i> (in person in the lab room) followed by Grignard Part B	Midterm (tests knowledge of labs 1-5)
Day 7 Monday, June 20 th	4C&6	Aspirin Part C and Base Catalyzed Aldol Condensation	Pre-lab Quiz due June 20 th at 10.00am
Day 8 Tuesday, June 21 st	7	Diels-Alder Reaction	Pre-lab Quiz due June 21 st at 10.00am
Day 9 Wednesday, June 22 nd	8	Friedel-Crafts Acylation	Pre-lab Quiz due June 22 nd at 10.00am
Day 10 Monday, June 27 th	9	Oxidation	Pre-lab Quiz due June 27 th at 10.00am
Day 11: Lab Final Tuesday, June 28 th		<i>Lab Final Exam</i> (in person in the lab room)	Final Exam (tests knowledge of labs 1-9)

Day of Lab:

Be sure to bring:

- Printed lab procedure from Blackboard (single- or double-sided print ok)
- Lab-report sheets from Blackboard (every single page, MUST BE **single-sided print**).
- Chemical splash safety goggles
- Appropriate shoes and clothing (see below)

Lab report sheets and lab instructions:

Bring the printed lab procedure & lab-report sheets to lab with you. Be sure to bring ALL pages of the report sheet including the instructions.

10 points will be deducted from the day's lab if you don't bring the print-out and we have to provide you with a copy.

Lab Goggles:

No goggles – no lab! No exceptions!

Failure to bring acceptable chemical splash goggles will result in exclusion from that day's lab and will count as one absence.

Appropriate shoes and clothing for lab:

- o **Shoes** must cover the entire foot, including the top.
- o **Upper body clothing** must cover the torso and the upper arm area. This includes the area below the neck, the midriff and shoulders. T-shirts are usually a good choice.
- o **Lower body clothing** must cover the entire leg. Jeans, scrubs, sweatpants or full-length skirts are good choices. Jeans made of distressed cloth (tears and holes) are not acceptable.

Some students make it a habit to keep a pair of sweatpants and an appropriate top in their backpacks to pull on when they come to lab. Remember, clothes can be damaged/stained in lab.

Failure to comply with the lab clothing policy will result in exclusion from that day's lab and will count as one absence.

Absence Policy

- 1) One absence – Weight of experiment is added to the final exam
- 2) Two absences – Weight of one experiment is added to the final exam, a score of zero is given for the other missed experiment
- 3) Three absences – Failing grade for the course

Tardiness Policy

You are expected to have completed the required prelab materials and to arrive on time for your lab. If you are not present when the roll is called, you will be considered tardy and receive a 10 point penalty. **Anyone more than 10 minutes late to lab will not be permitted to conduct the experiment and will be marked absent.**