



**Department of Chemistry**  
**CHEM 2124 Syllabus Fall 2024**

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## 2124 Course Calendar

Week	Date	Experiment	Quiz	Quiz/Exam Availability - Deadline
1	Aug 26-30	Lab Safety (Ch 1) - Bb	Quiz 1. Post-Lab Safety Quiz 2a. Pre-Lab Melting Points	8/26 at 12:00 am - 9/10 at 11:59 pm 8/26 at 12:00 am - 9/8 at 11:59 pm
2	Sep 2-6	Labor Day Holiday - No Lab!		
3	Sep 9-13	Melting Points (8.4 A) IR Lecture (Ch 13)	Quiz 2b. Post-Lab Melting Points Quiz 3a. Pre-Lab Crystallization	9/9 at 12:00 am - 9/17 at 11:59 pm 9/9 at 12:00 am - 9/15 at 11:59 pm
4	Sep 16-20	Crystallization (8.4 B) - IR	Quiz 3b. Post-Lab Crystallization Quiz 5a. Pre-Lab Extraction	9/16 at 12:00 am - 9/24 at 11:59 pm 9/16 at 12:00 am - 9/22 at 11:59 pm
5	Sep 23-27	Extraction (9.7 D) & Sublimation (8.3) - IR	Quiz 5b. Post-Lab Extraction Quiz 4a. Pre-Lab Distillation	9/23 at 12:00 am - 10/1 at 11:59 pm 9/23 at 12:00 am - 9/29 at 11:59 pm
6	Sep 30-Oct 4	Distillation (5.4 A&B) - IR	Quiz 4b. Post-Lab Distillation Quiz 6a. Pre-Lab TLC	9/30 at 12:00 am - 10/8 at 11:59 pm 9/30 at 12:00 am - 10/6 at 11:59 pm
7	Oct 7-11	Chromatography (TLC) (10.7 C) NMR Lecture (Ch 15)	Quiz 6b. Post-Lab TLC Quiz 7a. Pre-Lab S <sub>N</sub> 1	10/7 at 12:00 am - 10/15 at 11:59 pm 10/7 at 12:00 am - 10/13 at 11:59 pm
8	Oct 14-18	S <sub>N</sub> 1 Reaction (18.3 C) - NMR	Quiz 7b. Post-Lab S <sub>N</sub> 1 Quiz 8a. Pre-Lab Kinetics	10/14 at 12:00 am - 10/22 at 11:59 pm 10/14 at 12:00 am - 10/20 at 11:59 pm
9	Oct 21-25	Chemical Kinetics (20.4)	Quiz 8b. Post-Lab Kinetics Quiz 9a. Pre-Lab Aspirin	10/21 at 12:00 am - 10/29 at 11:59 pm 10/21 at 12:00 am - 10/27 at 11:59 pm
10	Oct 28-Nov 1	Synthesis of Aspirin (49.2 A) NMR	Quiz 9b. Post-Lab Aspirin Quiz 10a. Pre-Lab E1	10/28 at 12:00 am - 11/5 at 11:59 pm 10/28 at 12:00 am - 11/3 at 11:59 pm
11	Nov 4-8	E1 Reaction (21.5 A) - NMR	Quiz 10b. Post-Lab E1 Quiz 11a. Pre-Lab Isopentyl	11/4 at 12:00 am - 11/12 at 11:59 pm 11/4 at 12:00 am - 11/10 at 11:59 pm
12	Nov 11-15	Isopentyl Acetate (30.2.A) IR-NMR	Quiz 11b. Post-Lab Isopentyl Quizzes 12a&b. Pre & Post-Lab IR Quizzes 13a&b. Pre & Post-Lab NMR	11/11 at 12:00 am - 11/17 at 11:59 pm 11/4 at 12:00 am - 11/17 at 11:59 pm 11/4 at 12:00 am - 11/17 at 11:59 pm
13	Nov 18-22	Thanksgiving Holiday - No Lab!		
13	Nov 18-19	Comprehensive Final Exam	Online via Blackboard	11/18 at 12:00 am - 11/19 at 11:59 pm

## Important Dates

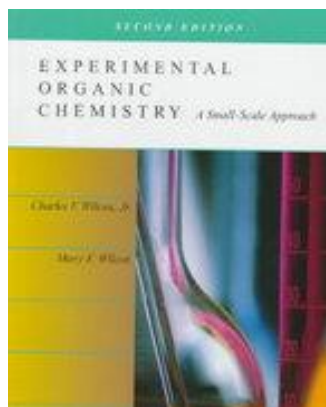
- Aug 26th Fall classes begin
- Sept 2<sup>nd</sup> Labor Day holiday - University Closed
- Sept 11th Fall Census Day
- Nov 1st Fall Drop/Withdrawal deadline (Student-initiated drops are permitted after this date, but the student is not guaranteed a grade of W. The faculty member of record will issue a grade of either W or F).
- Nov 28-29th Thanksgiving Holiday - University Closed
- Dec 5th Fall last day of classes
- Dec 6th Dead Day
- Dec 9-13th Fall Lecture Final Exams

## Required Materials

1. Wilcox & Wilcox textbook (purchasing the book is mandatory! PPT slides may not be available).
2. Goggles (**not safety glasses**). A seal should form around your eyes.
3. Pants (not shorts). Your legs must be covered.
4. Shoes (not sandals). Your feet must be completely covered.
5. A lab coat.

**You will be turned away and earn a zero in attendance for missing safety attire!**

**Textbook:** Experimental Organic Chemistry, A Small-Scale Approach, 2nd Ed; Wilcox & Wilcox available at the UTEP bookstore



## Course Objectives

1. Know the dangers of each laboratory including how to mitigate your risk.
2. Read and understand all the chapters, not just the experimental procedure.
3. Make sure that you can draw and understand all the structures and mechanisms for each lab.
4. Be able to apply a given mechanism to other reagents because we are not just cooks!
5. Understand which fundamental mechanism you are applying (Addition, Elimination, or Substitution) including the stereochemical consequences.
6. Understand whether a compound/reagent is oxidized or reduced.
7. Be able to calculate the yield of a product, and understand:
  - a. Structure to formula conversion
  - b. Formula to molecular weight conversion
  - c. mL to grams via density and vice-versa
  - d. grams to moles
  - e. What is the limiting reagent?
  - f. What is the stoichiometry of the reaction?
8. Understand why a particular procedure was followed.

## Course Expectations

Students are expected to prepare/submit for the following items each week:

1. The chapter related to the experiment in the Wilcox & Wilcox text.
2. The Pre-Lab Quiz along with **Safety Data Sheets (SDS) pdfs** on Bb.
3. The Post-Lab Report and the lab activity of the week in Bb.

On the first day you should have access to your 2124 Blackboard and eventually your Pre-Lab and Post-Lab Reports throughout the semester.

# Course Assessment

Grading Scale: **A > 90%, B > 80%, C > 70%, D > 60%, F < 60%**

**Grade Breakdown:** Your grade will consist of the following:

- **Attendance:** 10 Experiments x 40 pts. = **400 pts.** Safety lab Attendance: **30 pts.** BioRAFT online training **20 pts.** Total Attendance: **450 pts. - 45%**. Your attendance score also includes your devotion to lab safety, good lab technique and lab hygiene. You must fully participate in the lab.
- Online **Comprehensive Final Exam** on Blackboard: **50 pts. - 5%**
- Online **Pre-lab Quizzes** on Blackboard: **164 pts. - 16.4%**
- Online **Post-lab Quizzes** on Blackboard: **336 pts. - 33.6%** (A total of 1000 pts.)

## Attendance Policy

1. **Students who miss a lab unexcused will lose the credit for this lab and the post lab quiz!**
2. **Students must inform their TA of an absence in advance, or as soon as possible.**
3. Your TA may offer a makeup lab at another time in the same week he/she runs. However, **you will be responsible to make the request** to your TA at least a couple of weeks ahead and follow up with your TA to verify you have received credit for Attendance/quiz credits.
4. **Please do not email your instructor or your TA about finding a makeup lab for you or expect them to find your suitable makeup lab. Rather, search Goldmine to find a makeup lab appropriate to your schedule if you are allowed to make up for your lab.**
5. **Students are required to take the online quizzes, even if they are excused from lab attendance.**
6. **Proper medical documentation or proof of a university-sanctioned event (class trip, sports team playing out of town, etc.) must be provided for an excused absence. Sending emails with no proof does not make your absence excused.** If you have a valid excuse (not work or personal travel), you may be allowed by your TA to make up the missed lab in another lab in the same week if space is available in another lab section. When missing a lab due to illness or a university-sanctioned event, students will usually be able to complete the pre-lab and post-lab quiz on-line and are expected to do so (see below). If this is not possible, *e.g.*, due to hospitalization, students

must inform their instructor as soon as possible and provide documentation. Then, you may be provided with a video of the lab to complete the post-lab quiz.

7. **There is no grade exemption**; students either earn the attendance/quiz credit or earn a “zero”.
8. **Make-up labs are not always possible due to limited lab capacities.**

### **Pre-Lab and Post-Lab Quizzes:** Refer to the Course Calendar, Quiz Availability-Deadline.

1. The quiz questions are mostly multiple-choice, multiple answers, matching, calculated numeric, fill in the blank, or true/false. Pre-lab quizzes additionally include safety questions pertaining to the experiment of that lab and the Safety Data Sheets (SDS) of the reagents/solvents to be used.
2. Students have **3 attempts, and the last graded attempt** will be recorded. One of the reasons for allowing three attempts is in case your internet connection fails, so you have two more attempts to do the quiz.
3. You will not be forced to complete a quiz/report once you start it, and there is no timer for it. Nonetheless, you should save each question if you decide to stop working on it.
4. After the due date, students can see the correct answers for the quiz/report.
5. Due Dates for the on-line quizzes and reports are in Mountain Standard Time (MST).
6. **Note: Use your time wisely and focus on securing a good grade by attending the labs and doing all the quizzes on time. Unfortunately, nothing can be done to improve your grade at the end of the semester since there is no extra credit activity for this course.**

### **Final Exam Description**

1. Your comprehensive final exam covers ALL the experiments, the Safety, IR, and NMR labs.
2. The exam questions are solely from the pre and post lab quizzes.
3. The final exam will be open for **48 hours starting on Monday, 11/18/24 at 12:00 am to Tuesday, 11/19/24 at 11:59 pm.**
4. You are required to take your final exam using Respondus LockDown Browser.

5. To eliminate any issues regarding Respondus utilization during the final exam day, Respondus LockDown Browser has been applied to the IR/NMR quizzes so that you learn how to use it.
6. You should update your Respondus Lockdown Browser/Monitor to the latest version and make sure you have a strong, stable internet connection for your final exam in Blackboard via Respondus Lockdown Browser.
7. As part of Respondus LockDown, the policy may be set to ask for a picture ID and a surrounding check to assure students are not being assisted during the final exam.
8. Utilization of cellular phones or other electronic devices that are not equipped with Respondus LockDown Browser/Monitor are not allowed during the exam.
9. Students are not permitted to have cellphones, notes, and visitors when taking the exam.

## **Important Items**

1. It is the students' responsibility (not the instructor or TA) to check their progress (Attendance and quiz grades) via Bb throughout the semester daily!
2. If you wish to communicate with your TA/Instructor, please send an email and avoid sending messages on the blackboard; Bb messaging will not be replied to.
3. **If a student misses a Pre-Lab Quiz or a Post-Lab Report, there is no way of making it up!**
4. It is the students' responsibility to check whether they have successfully submitted a quiz.
5. It is strongly recommended **NOT** to wait until the last hour to submit a quiz.
6. Last-minute excuses like 'Computer freeze' or 'Internet outage' will **NOT** be accepted.
7. The instructor will **NOT** reopen a quiz once you failed to submit it on time or after the due date.
8. No excuses will be accepted other than:
  - a. You (not a family member) are seriously sick, and you have a letter from your physician confirming so.
  - b. You are participating in activities related to UTEP.
9. If a student wishes to receive a "W" for the course, it is his/her responsibility to drop the course before the drop deadline.

## Scholastic Integrity

Academic dishonesty is prohibited and is considered a violation of the **UTEP Handbook of Operating Procedures**.

The UTEP Handbook of Operating Procedures includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as one's own. Collusion involves collaborating with another person to commit any academically dishonest act.

Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the [Office of Student Conduct and Conflict Resolution \(OSCCR\)](#) for possible disciplinary action.

To learn more, visit [HOOP: Student Conduct and Discipline](#).

## Technology Requirements

Ensure you have access to a web browser such as Microsoft Edge, Google Chrome, or Mozilla Firefox. These browsers work best with Blackboard; others may cause complications. Before you attempt to take a Blackboard quiz, confirm you have a stable internet connection (wired, preferably). If you encounter an issue during your quiz, try the following steps:

- [Check your browser compatibility](#)
- [Update your browser](#)
- [Clear your history and cache](#)



If you encounter further issues, contact UTEP's [Help Desk](#). Provide them with a screenshot showing the error, the CRN of your course, and an explanation of what you are experiencing. This information will expedite the troubleshooting process.

## COVID-19 Precaution Statement

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, let your **instructor of record and TA** know as soon as possible, so we can work on appropriate accommodation.

If you have **tested positive** for COVID-19, you are required to report your results to covidaction@utep.edu, so the Dean of Students Office can support you and help communicate with your professors. The Student Health Center is equipped to provide COVID-19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. [This is the case in the Organic Chemistry Teaching Lab; therefore, please follow the CDC's recommendation and wear a facial mask during the entire lab period, if possible, an N95 facial mask.](#)

The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area. For more information about the current rates, testing, and vaccinations, please visit [epstrong.org](http://epstrong.org).

■ **The content of this syllabus is tentative and subject to slight variations.**