

# University of Texas at El Paso



## Department of Chemistry and Biochemistry

### Spring 2023 CHEM 2124 Syllabus

CRNs	Instructor Name	Instructor Email	Zoom Link to Virtual Office by Appointment via Email
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21283	“	“	<a href="https://utep-edu.zoom.us/j/89211069008">https://utep-edu.zoom.us/j/89211069008</a>
21284	“	“	“
24497	Dr. Katja Michael	Kmichael@utep.edu	“
24509	Dr. Saideh Mortazavi	ssmortazavi@utep.edu	“
21813	“	“	“
22224	“	“	“
23136	Dr. Yaoqiu Zhu	yzhu2@utep.edu	“
23751	Dr. Saideh Mortazavi	ssmortazavi@utep.edu	“
25066	“	“	“

CRNs	TA Name	TA Email	Zoom Link to Virtual Office by Appointment
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21283	Vanessa Aitken	vbaitken@miners.utep.edu	“
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Week	Date	2124 Course Curriculum
1	Jan 17-20	No Labs!
2	Jan 23-27	Laboratory Safety (Ch 1) - Bb
3	Jan 30-Feb 3	Melting Points (8.4 A) & IR Lecture (Ch 13)
4	Feb 6-10	Crystallization (8.4 B) & IR
5	Feb 13-17	Simple vs. Fractional Distillation (5.4 A & B) & IR
6	Feb 20-24	Extraction (9.7 D) & Sublimation (8.3) & IR
7	Feb 27-Mar 3	Chromatography, TLC (10.7 C) & NMR Lecture (Ch 15)
8	Mar 6-10	S <sub>N</sub> 1 Reaction-Synthesis of tert-Butyl Chloride (18.3 C) & NMR
9	Mar 13-17	No Labs! Spring Break
10	Mar 20-24	Chemical Kinetics (20.4)
11	Mar 27-31	No Labs! Cesar Chavez Holiday
12	Apr 3-7	No Labs! Spring Study Day
13	Apr 10-14	Synthesis of Aspirin (49.2 A) & NMR
14	Apr 17-21	E1 Reaction-Synthesis of Cyclohexene (21.5 A) & NMR
15	Apr 24-28	Synthesis of Isopentyl Acetate (Modified 30.2.A) & IR-NMR
16	May 1	Comprehensive Final Exam on Blackboard
17	May 8-12	No Labs! Lecture Final Exams

## Important Dates

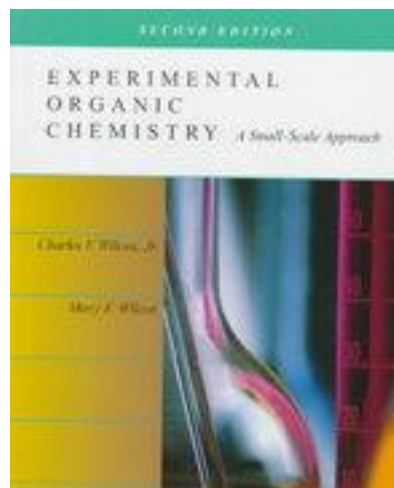
- Jan 17th                      Spring classes begin
- Jan 23                        Labs begins this week
- Feb 1st                        Spring Census Day
- Mar 13th-17th                Spring Break
- Mar 30th                      Spring Drop/Withdrawal Deadline
- Mar 31st                      Cesar Chavez Holiday - No classes
- Apr 7th                        Spring Study Day
- May 4th                        Spring – Last day of classes
- May 5th                        Dead day
- May 8-12th                    Spring 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 chapter, not just the experimental procedure.
3. Make sure that you can draw and understand all 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 have read the experiment content in the Wilcox/Wilcox textbook in advance and prepared for the weekly Pre-Lab Quizzes, the Post-Lab Reports, and the lab activity of the day. 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:

1. 45% Attendance. You must fully participate in the lab.
2. 15% Online Pre-lab Quizzes on Blackboard.
3. 30% Online Post-lab Quizzes on Blackboard.
4. 10% Comprehensive Final Exam on Blackboard

**Attendance Policy:** Students who miss a lab will lose 100% credit for that week including the pre and post lab quizzes unless previously discussed with the instructor of record. Proper medical documentation or proof of a university-sanctioned event must be provided for an excused absence. 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 initial request** to your instructor of record and TA, **as well as following up** with your TA to make sure you have received credit for your “Attendance Grade” in your section. **Make-up labs are not always possible due to limited lab capacities.**

**Pre-Lab and Post-Lab Quizzes:** Pre-Lab Quizzes will be available on Monday at 12:00 am before the upcoming weekly experiment and close on Sunday at 11:59 pm when the weekly experiment starts on Monday. Post-Lab Reports will open on Tuesday at 12:00 am and close on Monday at 11:59 pm when the weekly experiment is over. So, one whole week is allocated to Pre-Lab Quiz of a coming experiment and Post-Lab Report of a working lab except for the last Post-Lab Report and IR-NMR Quizzes; your last Post-Lab Report and IR-NMR Quizzes will be open from April 24-28.

1. The quiz questions are mostly multiple-choice, multiple answers, matching, calculated numeric, fill in the blank, or true/false.
2. Students will get **3 attempts and the last graded attempt** will be recorded. However, you are encouraged to get through the first attempt. Three attempts are set in place 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. Quizzes/Reports Due Dates and Times are in MST.

6. Note: Use your time wisely, focus on securing a good grade by attending all the labs and doing all the quizzes on time. Nothing can be done to improve your grade at the end of the semester!

**Final Exam Description:** Your comprehensive final exam will cover all the experiments along with the Safety Lab; questions are from the pre and post lab quizzes, and the exam will be deployed for **24 hours on Monday, May 1.** You are required to take your final exam using Respondus LockDown Browser. (To eliminate any issue regarding Respondus utilization during the final exam day, Respondus LockDown Browser will be applied to your IR/NMR quizzes.) Utilization of cellular phones or other electronic devices that are not equipped with Respondus LockDown Browser/Monitor will not be allowed during exams. Students will not be permitted to have cellphones, notes, and visitors when taking the exam. 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.

## Important Items

1. If a student misses a Pre-Lab Quiz or a Post-Lab Report, there is no way of making it up!
2. It is the student's responsibility to check whether they have successfully submitted a quiz.
3. It is strongly recommended **NOT** to wait until the last hour to submit a quiz.
4. Last-minute excuses like 'Computer freeze' or 'Internet outage' will **NOT** be accepted.
5. The instructor will **NOT** reopen a quiz once you failed to submit it on time or after the due date.
6. 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.
7. If a student wishes to receive a "W" for the course, it is his/her responsibility to drop the course before the drop date.

## 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 accommodations.

If you have **tested positive** for COVID-19, you are required to report your results to [covidaction@utep.edu](mailto: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.](#)**