

# University of Texas at El Paso

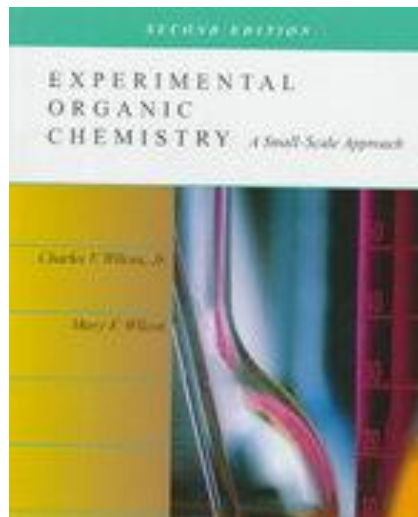


## Department of Chemistry and Biochemistry

### CHEM 2124 Syllabus for Fall 2021

| CRNs  | Instrucotr Name      | Instructor Email     | Zoom Link to Virtual Office by Appointment via Email  |
|-------|----------------------|----------------------|---|
| 11664 | Dr. Saideh Mortazavi | ssmortazavi@utep.edu | <a href="https://utep-edu.zoom.us/j/83275853564?pwd=TER2N2kxV0lJUDBDMkdneDR5dE5mUT09">https://utep-edu.zoom.us/j/83275853564?pwd=TER2N2kxV0lJUDBDMkdneDR5dE5mUT09</a> |
| 11665 | “                    | “                    | “   |
| 11668 | “                    | “                    | “   |
| 11670 | “                    | “                    | “   |
| 12578 | “                    | “                    | “   |
| 19930 | “                    | “                    | “   |
| 13176 | “                    | “                    | “   |
| 13467 | “                    | “                    | “   |
| 16011 | “                    | “                    | “   |
| 12339 | Dr. Katja Michael    | Kmichael@utep.edu    | <a href="https://utep-edu.zoom.us/j/89575214164?pwd=Tlg2ZmlhM3U4V243TkZuS0FRc0Jtdz09">https://utep-edu.zoom.us/j/89575214164?pwd=Tlg2ZmlhM3U4V243TkZuS0FRc0Jtdz09</a> |
| 12642 | Dr. Katja Michael    | Kmichael@utep.edu    | “   |
| 18185 | Dr. Yaoqiu Zhu       | yzhu2@utep.edu       | “   |
| 19815 | Dr. Hector Castillo  | hpdelcastil@utep.edu | “   |
| 19893 | Dr. Hector Castillo  | hpdelcastil@utep.edu | “   |

**Textbook:** Experimental Organic Chemistry: A Small Scale Approach, 2nd Ed; Wilcox & Wilcox



| CRNs  | TA Name              | TA Email                    | Zoom Link to Virtual Office by Appointment via Email  |
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| 11665 | Von Salzen, Daniel   | dhvonsalzen@miners.utep.edu | “   |
| 11668 | James Eaton          | jceaton@miners.utep.edu     | “   |
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| 12339 | Maricarmen Lerma     | mpalma@miners.utep.edu      | <a href="https://utep-edu.zoom.us/j/89575214164?pwd=TIg2ZmlhM3U4V243TkZuS0FRc0Jtdz09">https://utep-edu.zoom.us/j/89575214164?pwd=TIg2ZmlhM3U4V243TkZuS0FRc0Jtdz09</a> |
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| Week | Date        | Activity  |
|------|-------------|---|
| 1    | Aug 24 - 30 | No Labs   |
| 2    | 31 - Sep 6  | Laboratory Safety-Blackboard  |
| 3    | 7 - 13      | Melting Points (8.4 A) & IR Lecture (Chapter 13)                          |
| 4    | 14 - 20     | Crystallization (8.4 B) (Chapter 15)                                      |
| 5    | 21 - 27     | Simple & Fractional Distillation (5.4 A & B) & IR                         |
| 6    | 28 - Oct 4  | Extraction (9.7 D) & Sublimation (8.3)                                    |
| 7    | 5 - 11      | Thin Layer Chromatography (10.7 C) & NMR Lecture                          |
| 8    | 12 - 18     | S <sub>N</sub> 1 Reaction-Synthesis of tert-Butyl Chloride (18.3 C) & NMR |
| 9    | 19 - 25     | Chemical Kinetics (20.4) & IR   |
| 10   | 26 - 1      | Synthesis of Aspirin (49.2 A) & Midterm Exam (Labs 1-6)                   |
| 11   | Nov 2 - 8   | E1 Reaction-Synthesis of Cyclohexene (21.5 A) & NMR                       |
| 12   | 9 - 15      | Synthesis of Isopentyl Acetate (Modified 30.2.A) & *IR-NMR                |
| 13   | 16 - 22     | IR (Read Chapter 13) & NMR (Read Chapter 15)                              |
| 14   | 23 & 29     | Holiday-No Labs   |
| 15   | 30 - Dec 3  | *Final Exam (Labs 7-12)   |

\*IR-NMR for students who have missed a previous IR/NMR

\* Friday, 12/3/21 Final Exam will be online via Zoom proctored by the instructors and the TAs.

**Attendance:** Students who miss a lab for an unexcused reason will lose 100% of the credit for that week. However, for an excused absence proper medical documentation or university sanctioned event proof should be provided. Then, your TA may offer the makeup lab at another time he or she runs a lab or arrange for a makeup lab in a section with another TA. However, you will be responsible for the grading to be transferred to your section.

## Required Materials

1. The book.
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!

## Course Objectives

1. Know the dangers of each laboratory including how to mitigate your risk.
2. Read and understand all of 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.
9. Remember that this semester, this lab is your job.

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

Your grade will consist of the followings:

1. 33% Attendance. You must participate fully in the lab, and not come and go as you please!
2. 33% Online Pre-lab Quizzes and Post-lab Reports (Quizzes).
3. 34% In lab Midterm Exam (labs 1-6) and Final Exam (labs 7-12) Questions will be form Pre-lab Quizzes and Post-lab Reports, so bring your laptop to your lab on the day of your exams.

**Course Expectation:** 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.

**Pre-Lab and Post-Lab Quizzes:** Pre-Lab Quizzes open at 12 am on Saturday before the lab and close on Monday at 11:59 pm. Post-Lab Reports open at 12 am on Saturday after the lab and close on Monday at 11:59 pm so that students can concentrate on the lab at hand. Therefore, the weekend and Monday are allocated to the Pre-Lab Quiz of the coming experiment and the Post-Lab Report of the preceding experiment.

- The quiz/report questions are mostly multiple choice, multiple answer, or matching.
- Students will get **3 attempts and the last graded attempt**; however, 3 attempts are in place in case your internet connection goes out, so you have two more attempts to do the quiz.
- You will not be forced to complete a quiz/report once you start it, and there is no timer for it, however, you should save each question if you decide to stop working.
- After the due date, students can see the correct answers for the quiz/report.
- Quizzes/Reports Due Dates and Times are in MST.

## Quizzes/Reports Description

- 3 attempts and the last graded attempt.
- No force completion and no timer for the quiz.
- Can see the correct answers to the quiz after the due date.

**Note:** The whole semester is the time to focus on securing a good grade by attending all the labs and doing all the quizzes on time. At the end of the semester nothing can be done to improve your grade!

## Important Items

- If a student misses a Pre-Lab Quiz or a Post-Lab Report, there is no way of making it up.
- It is the student's responsibility to check whether he/she has successfully submitted a quiz.
- It is strongly recommended **NOT** to wait for the last hour to submit your quiz.
- The last-minute excuses like 'Computer freeze' or 'Internet outage' will **NOT** be accepted.
- The instructor will **NOT** reopen a quiz once you failed to submit it on time or after the due date.
- No excuses will be accepted other than:
  - you (not family member) are seriously sick and you have a letter from your physician.
  - you are participating in activities related to UTEP.
- If a student wishes to receive a "W" for the course, it is his/her responsibility to drop the course before the **drop date, 10/29/2021**.
- **The content of this syllabus is tentative and subject to slight variations.**

## **Scholastic Integrity**

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It 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 ones' 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 which works the best with Blackboard; other browsers may cause complications. Before you attempt to take a Blackboard quiz, ensure that you are on 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 further encounter issues, please contact [Help Desk](#) and provide a screenshot, the CRN, and an explanation of what you are experiencing to help expedite the troubleshooting process.

## **Important Dates**

- Aug 23rd            Fall classes begin
- Aug 30<sup>th</sup>            Labs begin
- Sept 6th            Labor Day Holiday - University Closed
- Sept 8th            Census Day
- Oct 29th            Drop/Withdrawal Deadline
- Nov 25-26th        Thanksgiving Holiday - University Closed
- Dec 2nd            Last day of classes
- Dec 3rd            Dead day
- Dec 6-10th        Final Exams
- Dec 15th            Grades are Due
- Dec 16th            Grades are posted to student records

## **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, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to [covidaction@utep.edu](mailto:covidaction@utep.edu), so that the Dean of Students Office can provide you with support and help with communication 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. 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, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit [epstrong.org](http://epstrong.org).