University of Texas at El Paso

Department of Chemistry and Biochemistry

CHEM 2124 Syllabus for Fall 2022

CRNs	Instructor Name	Instructor Email	Zoom Link to Virtual Office by Appointment via Email
11665	Dr. Katja Michael	Kmichael@utep.edu	Per request, a private link will be sent.
13186	"	"	"
12576	Dr. Hemant Sharma	hsharma@utep.edu	https://utep-edu.zoom.us/j/84350419186
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12574	"	"	"
12336	"	"	"
11670	"	"	"
12575	"	"	"
12639	"	"	"
11668	"	"	"
13484	"	"	"
16059	"	"	"

CRNs	TA Name	TA Email	Zoom Link to Virtual Office by Appointment via Email
11665	Javier Hernandez	jhernandez163@miners.utep.edu	https://utep-edu.zoom.us/j/87460821310
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16059	Isaac Weislow	isweislow@miners.utep.edu	"

Week	Date	2124 Course Curriculum
1	Aug 22-26	No Labs!
2	Aug 29-Sept 2	Welcome, Check-in, Laboratory Safety (Ch 1), & 2124 Bb
3	Sept 5-9	No Labs! Labor Day
4	Sept 12-16	Melting Points (8.4 A) & IR Lecture (Ch 13)
5	Sept 19-23	Crystallization (8.4 B) & IR
6	Sept 26-30	Simple vs. Fractional Distillation (5.4 A & B) & IR
7	Oct 3-7	Extraction (9.7 D) & Sublimation (8.3) & IR
8	Oct 10-14	Chromatography, TLC (10.7 C) & NMR Lecture (Ch 15)
9	Oct 17-21	S_N1 Reaction-Synthesis of tert-Butyl Chloride (18.3 C)
10	Oct 24-28	Chemical Kinetics (20.4) & NMR
11	Oct 31-Nov 4	Synthesis of Aspirin (49.2 A) & NMR
12	Nov 7-11	E1 Reaction-Synthesis of Cyclohexene (21.5 A) & NMR
13	Nov 14-18	Synthesis of Isopentyl Acetate (Modified 30.2.A) & IR-NMR*
14	Nov 21-25	No Labs! Thanksgiving Holiday
15	Nov 28-30	Comprehensive Final Exam on Blackboard
16	Dec 5-9	No Labs! Lecture Final Exams

*IR-NMR for students who missed an IR/NMR

Important Dates

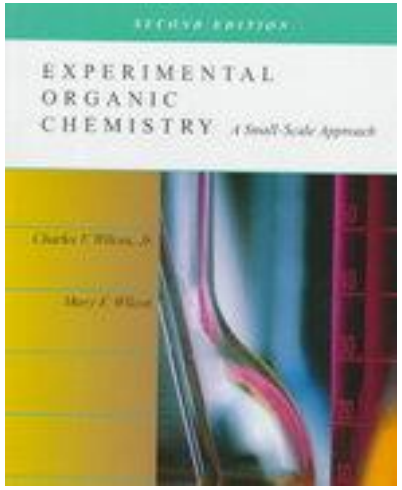
- Aug 29 — Labs begin in this week
- Sept 5th — Labor Day Holiday - University Closed
- Sept 7th — Fall Census Day
- Oct 28th — Fall Drop/Withdrawal Deadline
- Nov 24-25th — Thanksgiving Holiday - University Closed
- Dec 1st — Fall – Last day of classes
- Dec 2nd — Dead day
- Dec 5-9th — Fall Final Exams
- Dec 14th — Grades are Due
- Dec 15th — Grades are posted to student records; students are notified of grades and academic standing

Required Materials

1. Wilcox & Wilcox textbook or access to the on-line excerpts of this text.
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. 40% 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. 15% Comprehensive Final Exam on Blackboard

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

1. The quiz questions are mostly multiple-choice, multiple answers, matching, or short answers.
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 solely from the pre and post lab quizzes, and the exam will be deployed for three days (Nov 28-30). You are required to take the exam using Respondus LockDown Browser. 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!

If a student misses a Pre-Lab Quiz or a Post-Lab Report, there is no way of making it up.

1. It is the student's responsibility to check whether they have successfully submitted a quiz.
2. It is strongly recommended NOT to wait until the last hour to submit a quiz.
3. Last-minute excuses like 'Computer freeze' or 'Internet outage' will NOT be accepted.
4. The instructor will NOT reopen a quiz once you failed to submit it on time or after the due date.
5. No excuses will be accepted other than:
6. You (not a family member) are seriously sick, and you have a letter from your physician confirming so.
7. You are participating in activities related to UTEP.
8. 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, 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.

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