

# ORGANIC CHEMISTRY 1 LAB SYLLABUS CHEM 2124 UTEP

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Fall 2021

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## COURSE DESCRIPTION

**UTEP CHEM 21424** is an introductory course to organic chemistry laboratory. The overall goal of this course is to introduce the students to basic laboratory operations involved in synthetic organic chemistry and purification procedures. These concepts include but are not limited to: studying the different structural components of organic compounds, stoichiometry calculations, organic reactions, and basic purification techniques.

## REQUIRED MATERIAL

- Experimental Organic Chemistry: A Small-Scale Approach, 2nd Ed; Wilcox & Wilcox. Not mandatory, but it would help you very much to have this at hand.
- Chemical splash goggles
- Lab coat
- Scientific calculator

## SAFETY

Chemistry laboratories can be hazardous if the rules are not followed. Most accidents that occur in the chemistry laboratory are a result of carelessness, impatience, unauthorized experimentation, and disregard for safety rules.

### Laboratory Apparel

- **Splash goggles are required in the laboratory AT ALL TIMES!** Splash hazards are perhaps the most significant danger present in the lab, and eyes are extremely sensitive.
- Laboratory coats must be worn at all times.
- Sandals, open-toed shoes, and high heels are not permitted in the lab.
- Shorts are not permitted in the lab, long pants and long sleeves are mandatory. Your clothing will be your protection from direct exposure of the skin to chemical splash.
- Long hair is to be constrained. Long hair is subject to fire and contact with chemicals.

### Safety Equipment

- Identify all of the laboratory safety equipment and their location: the fire extinguisher, the emergency eyewash stations, the fire blankets, and the safety shower.
- Safety Data Sheets (SDS's) are available to you on request only.

## ATTENDANCE

Attendance is mandatory. You are expected to be on-time and ready for lab at the beginning of each lab period.

**If you miss an experiment, there will be no make-ups available, unless you have an emergency (you need to show proof) or a university-sanctioned event.**

## LAB RULES

- Upon entry to the lab, students must be properly attired. **Splash goggles will be required AT ALL TIMES!**
- Once everyone is admitted into the lab, the TA will give a presentation to inform students about lab procedure, materials, and safety hazards.
- The student is responsible for cleaning the workspace and any assigned lab areas before leaving the lab.
- Failure to follow the Lab rules will affect student grades.

## PRE-LABS AND REPORTS

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 on Blackboard.

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.

## COURSE EVALUATION

The final grade is based on the following: 1/3 of the final grade the average of prelabs, 1/3 the average of lab reports (both available on Blackboard), and 1/3 of the grade attendance and compliance to lab safety and instructions.

This last component of your grade will be based on your TAs perception and judgement of your performance. What is important is that you comply with all procedure and safety indications.

## ACADEMIC DISHONESTY

UTEP rules will be strictly enforced, academic dishonesty including but not limited to cheating, plagiarism, data falsification will not be tolerated. Minor incidences will result in a score of zero for the lab period and recurrence will result in the failure of the course.

Please review the UTEP Academic Integrity Policy in the following link <https://www.utep.edu/hoop/section-2/student-conduct-and-discipline.html>

## DISABILITY ACCOMODATIONS

UTEP is committed to provide an educational environment that is accessible to all students, those that need accommodations for a disability, please contact The Center for Accommodations and Support Services (CASS), located at Union Building East Room 106, or visiting its website <http://sa.utep.edu/cass/home> for an appointment to discuss your needs and the process for requesting accommodations.

## SCHEDULE OF EXPERIMENTS

| Friday    | Experiment  |
|-----------|---|
| Aug 23-27 | No Labs   |
| Sept 3    | Check-in, Welcome and Safety Lecture                      |
| Sept 10   | Melting Point   |
| Sept 17   | Crystallization   |
| Sept 24   | Simple & Fractional Distillation                          |
| Oct 1     | Extraction and Sublimation                                |
| Oct 8     | Thin Layer Chromatography                                 |
| Oct 15    | SN <sub>1</sub> Reaction-Synthesis of tert-Butyl Chloride |
| Oct 22    | Chemical Kinetics   |
| Oct 29    | Synthesis of Aspirin                                      |
| Nov 5     | E <sub>1</sub> Reaction-Synthesis of Cyclohexene          |
| Nov 12    | Synthesis of Isopentyl Acetate                            |
| Nov 19    | IR and NMR (Last day of class)                            |

**IMPORTANT  
DATES**

- Aug 23rd Fall classes begin ▪
- Aug 30th 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 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).