

## Master Course Syllabus

For additional course information, including prerequisites, corequisites, and course fees, please refer to the Catalog: <https://catalog.uvu.edu/>

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**Semester:** Spring

**Year:** 2025

**Course Prefix:** CHEM

**Course and Section #:** 2325-202

**Course Title:** Organic Chemistry Laboratory II

**Credits:** 1

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### *Course Description*

This is the second of a series of two laboratory courses to accompany CHEM 2310 and 2320, intended for students majoring in science and those interested in careers in medicine, dentistry, veterinary science, pharmacy, etc. This course introduces safety in organic chemistry lab and organic chemical waste disposal. It expands on the organic synthesis techniques used in CHEM 2315.

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### *Course Attributes*

This course has the following attributes:

- General Education Requirements
- Global/Intercultural Graduation Requirements
- Writing Enriched Graduation Requirements
- Discipline Core Requirements in Program
- Elective Core Requirements in Program
- Open Elective

Other: *Click here to enter text.*

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### *Instructor Information*

**Instructor Name:** Stella Lima

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### *Student Learning Outcomes*

Upon successful completion, students should be able to:

1. Demonstrate understanding of the paramount importance of laboratory safety and proper waste disposal in the organic chemistry laboratory;
  2. Synthesize organic compounds by carrying out simple organic reactions;
  3. Use basic separatory and purification techniques, such as distillation and crystallization, to isolate the products of organic reactions;
  4. Apply basic analytical techniques, such as melting point determination and chromatography, to characterize the products of organic reactions.
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### *Course Materials and Texts*

Lab Manual: Experimental Organic Chemistry: A Miniscale & Macroscale Approach, 6<sup>th</sup> Edition, ISBN #9781337064521, by Gilbert and Martin.

Lab Notebook

Safety Glasses: Must meet OSHA requirements for chemical splash protection (goggles with polycarbonate lenses w/no direct air venting)

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## ***Course Requirements***

### **Course Assignments, Assessments, and Grading Policy**

Weekly online quizzes based on prelab preparation (16.6% of overall grade)

Lab notebook submitted online (33.3% of overall grade)

Lab reports submitted online (33.3% of overall grade)

Final Exam in class (16.8% of overall grade)

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### **Required or Recommended Reading Assignments**

Selections from *Experimental Organic Chemistry – A Miniscale and Microscale Approach, Sixth Edition*

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### **General Description of the Subject Matter of Each Lecture or Discussion**

List of experiments:

NMR Demo and IR

Week of Martin Luther King, Jr Day

Diels-Alder: Reaction of 1,3-Butadiene and Maleic Anhydride

Nitration of Bromobenzene

Oxidation of Cyclododecanol

Week of President's Day

Grignard Reagents: Triphenylmethanol

Wittig: Preparation of (Z)- and (E)-Stilbenes

Week of Spring Break

Fischer Esterification: Benzocaine

Preparation and Chemiluminescence of Luminol

Aldol Condensation: trans-p-Anisalacetophenone

Solution Polymerization of Styrene

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## ***Required Course Syllabus Statements***

### **Generative AI**

This course requires you to complete assignments that assess your understanding, application, and problem-solving ability applied to chemistry. You are expected to do your own work. Problem solving and scientific thinking are tools that are necessary for students to learn in this course. The use of artificial intelligence (AI) tools, such as chatbots, text generators, paraphrasers, summarizers, or solvers, may be allowed for some parts of some assignments with proper documentation. Using these tools without thorough documentation will be considered academic dishonesty and will be handled according to the university's academic honesty policy. If you have questions about acceptable use of AI tools, please consult the instructor before submitting your work.

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### **Using Remote Testing Software**

This course does not use remote testing software.

This course uses remote testing software. Remote test-takers may choose their remote testing locations. Please note, however, that the testing software used for this may conduct a brief scan of remote test-takers' immediate surroundings, may require use of a webcam while taking an exam, may

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require the microphone be on while taking an exam, or may require other practices to confirm academic honesty. Test-takers therefore shall have no expectation of privacy in their test-taking location during, or immediately preceding, remote testing. If a student strongly objects to using test-taking software, the student should contact the instructor at the beginning of the semester to determine whether alternative testing arrangements are feasible. Alternatives are not guaranteed.

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## ***Required University Syllabus Statements***

### **Accommodations/Students with Disabilities**

Students needing accommodations due to a permanent or temporary disability, pregnancy or pregnancy-related conditions may contact UVU [Accessibility Services](#) at [accessibilityservices@uvu.edu](mailto:accessibilityservices@uvu.edu) or 801-863-8747.

Accessibility Services is located on the Orem Campus in BA 110.

Deaf/Hard of Hearing students requesting ASL interpreters or transcribers can contact Accessibility Services to set up accommodations. Deaf/Hard of Hearing services can be contacted at [DHHservices@uvu.edu](mailto:DHHservices@uvu.edu)

DHH is located on the Orem Campus in BA 112.

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### **Academic Integrity**

At Utah Valley University, faculty and students operate in an atmosphere of mutual trust. Maintaining an atmosphere of academic integrity allows for free exchange of ideas and enables all members of the community to achieve their highest potential. Our goal is to foster an intellectual atmosphere that produces scholars of integrity and imaginative thought. In all academic work, the ideas and contributions of others must be appropriately acknowledged and UVU students are expected to produce their own original academic work.

Faculty and students share the responsibility of ensuring the honesty and fairness of the intellectual environment at UVU. Students have a responsibility to promote academic integrity at the university by not participating in or facilitating others' participation in any act of academic dishonesty. As members of the academic community, students must become familiar with their [rights and responsibilities](#). In each course, they are responsible for knowing the requirements and restrictions regarding research and writing, assessments, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Likewise, instructors are responsible to clearly state expectations and model best practices.

Further information on what constitutes academic dishonesty is detailed in [UVU Policy 541: Student Code of Conduct](#).

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### **Equity and Title IX**

Utah Valley University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age (40 and over), disability, veteran status, pregnancy, childbirth, or pregnancy-related conditions, citizenship, genetic information, or other basis protected by applicable law, including Title IX and 34 C.F.R. Part 106, in employment, treatment, admission, access to educational programs and activities, or other University benefits or services. Inquiries about nondiscrimination at UVU may be directed to the U.S. Department of Education's Office

for Civil Rights or UVU's Title IX Coordinator at 801-863-7999 – [TitleIX@uvu.edu](mailto:TitleIX@uvu.edu) – 800 W University Pkwy, Orem, 84058, Suite BA 203.

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### **Religious Accommodation**

UVU values and acknowledges the array of worldviews, faiths, and religions represented in our student body, and as such provides supportive accommodations for students. Religious belief or conscience broadly includes religious, non-religious, theistic, or non-theistic moral or ethical beliefs as well as participation in religious holidays, observances, or activities. Accommodations may include scheduling or due-date modifications or make-up assignments for missed class work.

To seek a religious accommodation, a student must provide written notice to the instructor and the Director of Accessibility Services at [accessibilityservices@uvu.edu](mailto:accessibilityservices@uvu.edu). If the accommodation relates to a scheduling conflict, the notice should include the date, time, and brief description of the difficulty posed by the conflict. Such requests should be made as soon as the student is aware of the prospective scheduling conflict.

While religious expression is welcome throughout campus, UVU also has a [specially dedicated space](#) for meditation, prayer, reflection, or other forms of religious expression.