

Chemistry 2094 (Organic Chemistry I, 3 units) Fall, 2026

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Section 1: MWF 8:30-9:25 Latter 101 8/31 – 12/11

Section 2: MWF 1:30-2:25 Taylor 105 8/31 – 12/11

1. **Course Description:** Study of organic compounds by functional group families with emphasis on structures, reactions, mechanisms, stereochemistry, and synthesis.
2. **Course Learning Outcomes:** The following outcomes are expected and will be assessed on exams and quizzes:
 - a) Apply the fundamental principles of polarity, acidity, resonance, and structure/stability relationships to relevant problems.
 - b) Demonstrate fluency in the nomenclature of alkanes, alkenes, alkynes, alcohols, ethers, and alkyl halides, and an understanding of the basic mechanisms by which these compounds react.
 - c) Design synthetic strategies involving alkanes, alkenes, alkynes, alcohols, ethers, and alkyl halides.
 - d) Propose reasonable reaction mechanisms in which alkanes, alkenes, alkynes, alcohols, ethers, and alkyl halides participate based on information discussed in class.
 - e) Infer molecular structure using instrumental techniques to include mass spectrometry, infrared spectroscopy, and nuclear magnetic resonance spectroscopy.

Program Learning Outcomes: PLO 1d and 2 are introduced and developed but not mastered in this course, so there are no course assignments used for assessment of our PLO's.

3. **Texts:** David Klein and Laurie Starkey, **Organic Chemistry**, 5th edition, John Wiley and Sons Inc., 2025. You are expected to have access to a copy of this text.
 - **WileyPlus Allocation:** This is a web based homework site. You are required to access this service. If you bought a new book from the book store you already received access to Wiley Plus in your bundle. Access should be included if you opted into Loma Books. Our WileyPlus course section ID is **C80315**. A standalone copy of WileyPlus can be purchased online, which includes the e-book.
4. **Molecular Models:** You will find that a set of molecular models is very useful in this course.
5. **Internet Resources and Communication:** You will be required to access this course on Canvas. I will place chapter notes for the class on this sight that you will have to access. Sections of the notes will be completed in videos that you will watch before coming to each class. The notes may contain some information that is not in the text. If filled out correctly, your notes should serve as an excellent chapter summary for review. Also, you are expected to access the WileyPlus online homework site.

6. **Assigned Problems:** There will be a set of assigned problems due before the beginning of each class from the material covered in pre-class videos. These problems will count for 10% of your course grade. In addition, you will be assigned a set of homework for every chapter to be completed online at the WileyPlus web site. The assignment for each chapter includes all the possible questions and will be due no earlier than 11:59 pm two days after the completion of a chapter in lecture. You will be graded out of 10 points per assignment, which correlates to 10 problems. These assignments are invaluable in preparing you for the in-class exams. I strongly encourage you to solve as many problems as possible as working problems is the only practical way for learning the material, and you should try your best to solve the problems before looking at the solutions. The online homework will count for 10% of your overall course grade.
7. **Group Work:** You will be required to perform in-class work in groups. These groups will consist of 3-4 students and will be assigned in the beginning of the semester. Group work will consist of daily problem sets and exam review. Group work will count toward 10% of your overall course grade.
8. **Christian Practice:** There ought to be something different about a course taken at PLNU when compared to an institution that is not faith based. This difference, at least for Organic Chemistry, is not in content. It is, instead a difference in the class community. I desire for our class to be one in which the needs of others in the class are considered by the community. You will be assigned to a group at the beginning of the semester, and you will be asked to pray for members of the group throughout the semester. You will meet as a group at least three times during the semester with the first meeting occurring in the first two weeks of class. You will be required to fill out a log that includes the times you met as a group, the times you have prayed for group members, as well as times that you have encouraged a classmate or helped them in some way. You will hand this log in at the end of the semester and will be required to have at least 10 entries in addition to the three group meetings. This log will count for 60 points. There will be two check-in assignments during the semester worth 10 points each. In addition, you will be required to write a brief reflection on the overall assignment. This will also be worth 20 points. This Christian practice, love of neighbor, assignment will be worth 6% of your overall course grade.
9. **Office Hours:** I will make every effort to be available in my office during the times I've indicated below for office hours. I will hold office hours in my office, or I will post my location. If you need help outside of these times then you are welcome to schedule an appointment or take your chances and drop by my office in the Chemistry Department, Rohr Science 366.

Office Hours

Monday: 3:30-4:30

Tuesday: 2:30-3:30

Friday: 3-4

10. **Reading Logs:** Reading logs will be available on Canvas. These logs are optional, but if you fill out complete logs for every Chapter I will add 1% to your overall course grade.
11. **Quizzes:** There will be ten chapter quizzes worth 10 points each given over the course of the semester. These will be announced two class periods prior to the quiz. There will also be three post-exam quizzes throughout the semester worth 20 points each. Quizzes will be worth 10% of your course grade.
12. **Examinations:**
 - a) **Major Exams:** Exams will cover material in the text and the lecture material as well as any other assigned material. There will be 3 major exams worth 100 points each. These will count for 36% of your overall course grade. There will be no exam scores dropped. Exams will be comprehensive, but material covered since the previous exam will be emphasized. **If you are caught cheating, you can be given a zero on that quiz or exam and may be subject to further action as stated in university policy. Makeup examinations will be given only for excused absences provided the appropriate documentation is provided within the time frame (2 working days of the end of the excused absence). This is an absolute deadline by which you must notify me of any excused absence!** I would certainly

appreciate it if you contacted me the day of the examination or before the examination if you must miss an exam for any reason. My phone (619-849-2976) has a 24-hour message service so you may leave a message (always leave a phone number where you may be reached). If you are unable to call me then have your roommate, parents, etc. make the contact for you. If you find that there are errors in the grading of your exam, you will have two class periods after the exam has been returned to submit your exam for re-grading.

b) **Final Exam:** Successful completion of this class requires taking the final examination on its scheduled day. The final examination schedule is posted on the Traditional Undergraduate Records: Final Exam Schedules site. If you find yourself scheduled for three (3) or more final examinations on the same day, you are authorized to contact each professor to arrange a different time for one of those exams. However, unless you have three (3) or more exams on the same day, no requests for alternative final examinations will be granted. Approximately half of the final will be over material covered since the third in-class exam, and the other half will be comprehensive. The final will count for 18% of your overall course grade.

c) **Exam Schedule:** A schedule for the 3 midsemester exams and final exam is given below. Although it should not be necessary, changes in exam dates, if required, will be announced at least two days in advance. If you miss class and do not find out about the changes, that is your problem, and it is not a valid reason for requesting a make-up exam. The date for the final exam is firm as set by university policy.

Exam #1	September 28 (Monday)
Exam #2	October 21 (Wednesday)
Exam #3	November 16 (Monday)
Final	December 14 (Friday 4:30-7)

13. **Laboratory:** You are required to register for and attend CHE2094L as a co-requisite for this course. If you drop the lab, you may be required to drop the course as well. This lab is worth 1 unit and will be graded independently. You will receive a separate lab syllabus.

14. **Course Grade:** Your overall course grade will be based on your performance in lecture. You will receive a separate grade for the laboratory. The weighting of each course activity is shown below.

Video Problems	10%
Homework	10%
Group work	10%
Quizzes	10%
Christ. Practice	6%
Hour exams	36%
Final	18%

Letter grades will be assigned at the end of the course based on your percentage of total possible points, according to the following APPROXIMATE scale:

A	90 – 100%
B	80 – 90%
C	70 – 80%
D	60 – 70%
NC/F	< 60%

(+) and (–) grades will be assigned within each bracket. (There is no A+ grade.)

15. **Attendance:** Attendance will be taken and will be used for advising purposes. If your absence is not excused, then you will get a zero for any group work done on that day. Regular and punctual attendance at all class sessions is considered essential to optimum academic achievement. If the student is absent for more than 10 percent of class sessions, the faculty member will issue a written warning of de-enrollment. If

the absences exceed 20 percent, the student may be de-enrolled without notice until the university drop date or, after that date, receive the appropriate grade for their work and participation.

16. **Course Syllabus:** Listed below is a course schedule.

Date	Chapter	Content	Chapter Homework Due
8-31	Introduction		N/A
9-2	1	Gen. Chem Review	N/A
9-4	2	Molecular Representations	N/A
9-9	2	Molecular Representations	Chapter 1
9-11	3	Acids and Bases	N/A
9-14	3	Acids and Bases	Chapter 2
9-16	4	Alkanes and Cycloalkanes	N/A
9-18	4	Alkanes and Cycloalkanes	Chapter 3
9-21	4	Alkanes and Cycloalkanes	N/A
9-23	4	Alkanes and Cycloalkanes	N/A
9-25	1-4	Exam Review	N/A
9-28	1-4	EXAM #1	Chapter 4
9-30	5	Stereoisomerism	N/A
10-2	5	Stereoisomerism	N/A
10-5	5	Stereoisomerism	N/A
10-7	14	IR and MS	N/A
10-9	14	IR and MS	Chapter 5
10-12	15	NMR Spectroscopy	N/A
10-14	15	NMR Spectroscopy	Chapter 14
10-16	15	NMR Spectroscopy	N/A
10-19	15/Exam Review	NMR Spectroscopy	N/A
10-21	5,14,15	EXAM #2	Chapter 15
10-26	6	Reactions and Arrows	N/A
10-28	6	Reactions and Arrows	N/A
10-30	7	Reactions of Alkyl Halides	N/A
11-2	7	Reactions of Alkyl Halides	Chapter 6
11-4	7	Reactions of Alkyl Halides	N/A
11-6	7	Reactions of Alkyl Halides	N/A
11-9	7	Reactions of Alkyl Halides	N/A
11-11	7	Reactions of Alkyl Halides	N/A
11-13	6-7	Exam Review	N/A
11-16	6-7	EXAM #3	Chapter 7
11-18	8	Reactions of Alkenes	N/A
11-20	8	Reactions of Alkenes	N/A
11-23	Reactions of Alkenes		8
			N/A
11-30	9	Reactions of Alkynes	N/A

12-2	9	Reactions of Alkynes	Chapter 8
12-4	10	Radical Reactions	N/A
12-7	10	Radical Reactions	Chapter 9
12-9	10/11	Radical Reactions/Synthesis	N/A
12-11	8-11	Exam Review	Chapter 10
12-14	FINAL EXAM (4:30-7)		

17. **Academic Accommodations:** PLNU is committed to providing equal opportunity for participation in all its programs, services, and activities in accordance with the Americans with Disabilities Act (ADA). Students with disabilities may request course-related accommodations by contacting the Educational Access Center (EAC), located in the Bond Academic Center (EAC@pointloma.edu or 619-849-2533). Once a student's eligibility for an accommodation has been determined, the EAC will work with the student to create an Accommodation Plan (AP) that outlines allowed accommodations. Professors are able to view a student's approved accommodations through Accommodate.

PLNU highly recommends that students speak with their professors during the first two weeks of each semester/term about the implementation of their AP in that particular course. Accommodations are not retroactive so clarifying with the professor at the outset is one of the best ways to promote positive academic outcomes.

Students who need accommodations for a disability should contact the EAC as early as possible (i.e., ideally before the beginning of the semester) to assure appropriate accommodations can be provided. It is the student's responsibility to make the first contact with the EAC. Students cannot assume that because they had accommodations in the past, their eligibility at PLNU is automatic. All determinations at PLNU must go through the EAC process. This is to protect the privacy of students with disabilities who may not want to disclose this information and are not asking for any accommodations.

18. **Recording Notification:** In order to enhance the learning experience, please be advised that this course may be recorded by the professor for educational purposes, and access to these recordings will be limited to enrolled students and authorized personnel.

Note that all recordings are subject to copyright protection. Any unauthorized distribution or publication of these recordings without written approval from the University (refer to the Dean) is strictly prohibited.

19. **University Mission:** Point Loma Nazarene University exists to provide higher education in a vital Christian community where minds are engaged and challenged, character is modeled and formed, and service is an expression of faith. Being of Wesleyan heritage, we strive to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.
20. **FE Mission:** PLNU provides a foundational course of study in the liberal arts informed by the life, death, and resurrection of Jesus Christ. In keeping with the Wesleyan tradition, the curriculum equips students with a broad range of knowledge and skills within and across disciplines to enrich major study, lifelong learning, and vocational service as Christ-like participants in the world's diverse societies and cultures.
21. **Copyright:** Point Loma Nazarene University, as a non-profit educational institution, is entitled by law to use materials protected by the US Copyright Act for classroom education. Any use of those materials outside the class may violate the law.

22. **Academic Honesty:** Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one's own when in reality they are the results of another person's creativity and effort. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for that assignment or examination, or, depending on the seriousness of the offense, for the course. Faculty should follow and students may appeal using the procedure in the university Catalog. See [Academic Policies](#) for definitions of kinds of academic dishonesty and for further policy information. For all student appeals, faculty and students should follow the procedures outlined in the University Catalog. See Academic Policies for definitions of kinds of academic dishonesty and for further policy information.

23. **Sexual Misconduct and Discrimination:** Point Loma Nazarene University faculty are committed to helping create a safe learning environment for all students. If you (or someone you know) have experienced any form of sexual discrimination or misconduct, including sexual assault, dating or domestic violence, or stalking, know that help and support are available through the Title IX Office at pointloma.edu/Title-IX. Please be aware that under Title IX of the Education Amendments of 1972, it is required to disclose information about such misconduct to the Title IX Office.

If you wish to speak to a confidential employee who does not have this reporting responsibility, you can contact Counseling Services at counselingservices@pointloma.edu or find a list of campus pastors at pointloma.edu/title-ix

24. **State Authorization:** State authorization is a formal determination by a state that Point Loma Nazarene University is approved to conduct activities regulated by that state. In certain states outside California, Point Loma Nazarene University is not authorized to enroll online (distance education) students. If a student moves to another state after admission to the program and/or enrollment in an online course, continuation within the program and/or course will depend on whether Point Loma Nazarene University is authorized to offer distance education courses in that state. It is the student's responsibility to notify the institution of any change in his or her physical location. Refer to the map on [State Authorization](#) to view which states allow online (distance education) outside of California.

25. **Spiritual Care:** Please be aware PLNU strives to be a place where you grow as whole persons. To this end, we provide resources for our students to encounter God and grow in their Christian faith.

If students have questions, a desire to meet with the chaplain or have prayer requests you can contact your professor or the [Office of Spiritual Life and Formation](#).

26. **Artificial Intelligence (AI) Policy:** You are allowed to use Artificial Intelligence (AI) tools (e.g., ChatGPT, Gemini Pro 1.5, GrammarlyGo, Perplexity, etc) to facilitate study, but you are not allowed to use AI tools to generate content (text, video, audio, images) that will end up in any work submitted to be graded for this course. If you have any doubts about using AI, please gain permission from the instructor.

27. **Language and Belonging:** Point Loma Nazarene University faculty are committed to helping create a safe and hospitable learning environment for all students. As Christian scholars we are keenly aware of the power of language and believe in treating others with dignity. As such, it is important that our language be equitable, inclusive, and prejudice free. Inclusive/Bias-free language is the standard outlined by all major academic style guides, including MLA, APA, and Chicago, and it is the expected norm in university-level work. Good writing and speaking do not use unsubstantiated or irrelevant generalizations about personal qualities such as age, disability, economic class, ethnicity, marital status, parentage, political or religious beliefs, race, gender, sex, or sexual orientation. Inclusive language also avoids using stereotypes or terminology that demeans persons or groups based on age, disability, class, ethnicity, gender, race, language, or national origin. Respectful use of language is particularly important when referring to those outside of the religious and lifestyle commitments of those in the PLNU community. By working toward

precision and clarity of language, we mark ourselves as serious and respectful scholars, and we model the Christ-like quality of hospitality.

If you (or someone you know) have experienced other forms of discrimination, you can find more information on reporting and resources at www.pointloma.edu/nondiscrimination.

- 28. Lomabooks Instructions:** This course is part of our course material delivery program, LomaBooks. The bookstore will provide each student with a convenient package containing all required physical materials; all digitally delivered materials will be integrated into Canvas.

You should have received an email from the bookstore confirming the list of materials that will be provided for each of your courses and asking you to select how you would like to receive any printed components (in-store pick up or home delivery). If you have not done so already, please confirm your fulfillment preference so the bookstore can prepare your materials.

For more information about LomaBooks, please go: [HERE](#)

- 29. Lomabooks Instructions:** Both faculty and students at Point Loma Nazarene University have the right to expect a safe and ordered environment for learning. Students are expected to take the initiative to learn and conduct themselves in a mature and civil manner in the classroom environment. Any student behavior that is disruptive or threatening is a serious affront to Point Loma Nazarene University as a learning community. Students who fail to adhere to these behavioral standards may be subject to disciplinary action, including removal from class or further university sanctions. For a full definition of disruptive behavior, response procedures, and the appeal process, please consult the [Academic Behavior Policy](#) in the [University Catalog](#).