

Chemistry 454 (Advanced Organic Lab)

Spring, 2015

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- 1. Student Outcomes:** The following outcomes are expected and will be assessed. Students will:
 - a) Utilize standard Schlenk techniques for the manipulation of air-sensitive compounds
 - b) Develop reaction conditions from literature precedence.
 - c) Record their experimental details in a laboratory notebook
 - d) Analyze reaction results
 - e) Communicate experimental results in the form of a journal article
- 2. Safety:** Safety is to be regarded as everyone's top concern. The material safety data sheets (MSDS's) for all of your starting materials are available at www.sigmaaldrich.com and you are responsible for knowing the information in the MSDS prior to running an experiment. You must have your procedure checked out with me before you proceed. You will be trained on any new procedure, but you should let me know if you feel uncomfortable with any part of the experimental process.
- 3. Internet Resources and Communication:** You will be required to access this course on Canvas. I will place relevant articles and information on Canvas.
- 4. Lab Notebooks:** This lab course is going to be significantly different from any chemistry lab you have taken at Point Loma. You will actually be carrying out research which means the outcomes of the experiments will not be known in advance. For this reason, laboratory notebooks are an essential tool. You will be required to keep a detailed lab notebook. These documents are extremely important and must be done with great care and concern. I must sign each page describing an experimental procedure before you begin. Copies of your lab notebook will be handed in each week and will count toward your overall course grade.
- 5. Groups:** We will work in pairs throughout the semester and will have to find times in any given week when both group members can spend at least three hours working toward class goals.
- 6. Office Hours:** I will make every effort to be available in my office during the times I've indicated below for office hours. You are welcome to schedule an appointment or take your chances and drop by, especially if you find these times inconvenient.

Office Hours
Monday: 2:45 – 4
Tuesday: 10:50-11:50
Wednesday: 1:30 -2:45
- 7. Lab reports:** You will be required to write a lab report based on the content areas assigned over the course of the semester. This will be written as a short communication in the format of ACS peer reviewed journal articles. They will include a title, author's names, abstract, background/introduction, results and discussion, conclusion, experimental descriptions, and references. Although you will be working in pairs, each student must submit their own report. I will help you make sure you are writing some sections throughout the course of the semester. The due date for the final report will be Monday, May 4.

8. **Course Grade:** Your overall course grade will be based on your effort and performance. The weighting of each course activity is shown below.

Weekly Notebook	60 %
Lab report	40%

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.)

9. **Attendance:** You must work at least three hours each week.
10. **Academic Accommodations:** While all students are expected to meet the minimum academic standards for completion of this course as established by the instructor, students with disabilities may require academic accommodations. At Point Loma Nazarene University, students requesting academic accommodations must file documentation with the Disability Resource Center (DRC), located in the Bond Academic Center. Once the student files documentation, the Disability Resource Center will contact the student's instructors and provide written recommendations for reasonable and appropriate accommodations to meet the individual needs of the student. This policy assists the university in its commitment to full compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities (ADA) Act of 1990, and ADA Amendments Act of 2008, all of which prohibit discrimination against students with disabilities and guarantees all qualified students equal access to and benefits of PLNU programs and activities.