

Point Loma Nazarene University
Department of Chemistry

CHE467 – Advanced Inorganic Chemistry Laboratory
Spring Term, 2018
Thursdays, 1:30 – 5:00 pm, Sator Hall 216

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Office hours: M, 1 – 2 pm, WF, 12:15 – 2:00 pm, Th, noon – 1 pm

Rohr Science 302C
(619) 849-3251

Prerequisite

Completion or enrollment in CHE468 is required.

Course Description

The preparation, purification and characterization of main group and transition metal inorganic and organometallic compounds.

Course Objectives

At the completion of this course, students will be able to:

- synthesize inorganic compounds using literature procedures.
- characterize inorganic compounds using a range of techniques, including NMR, UV/vis, FT-IR, and magnetic susceptibility..
- communicate the results of experiments clearly and concisely using the journal format of the American Chemical Society.

Prelabs

Prelab write-ups of procedure are required before starting any lab. It should include a flow diagram of what you expect to accomplish during that lab period, brief procedures, waste handling, and safety considerations. Prelabs should be emailed to me the night before you wish to work in lab.

Lab Notebooks

Lab notebooks are an essential component of research. A handout will be provided with guidelines for proper notebook format and notebooks will be graded.

Lab Reports

Three lab reports are required for this class. Further details regarding these reports will be distributed. For each report, a rough draft is due at least one week before the due date. The first report is due on Friday, March 2. The due dates for the second and third report will be determined.

Recommended texts

There are no specific textbooks required for this course, but I recommend that you own at least one general inorganic text. Suitable books include,

“Inorganic Chemistry” Miessler and Tarr, any edition.

“Inorganic Chemistry” Shriver and Atkins, any edition.

“Concepts and Models of Inorganic Chemistry” Douglas, McDaniel, & Alexander, Wiley.

“Inorganic Chemistry” Huheey, Keiter, & Keiter, Harper Collins.

Grading

Notebook	10%
Product Yield & Appearance	10%
Prelab	10%
Rough Draft of Lab Report	10%
Lab Reports	60%

Letter grades will be assigned using the following scale.

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

OTHER MATTERS:

Academic Accommodations Policy: If you have a diagnosed disability, please contact PLNU's Disability Resource Center (DRC) within the first two weeks of class to demonstrate need and to register for accommodation by phone at 619-849-2486 or by e-mail at DRC@pointloma.edu. See [Disability Resource Center](#) for additional information.

Academic Honesty Policy: 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.

Final Examination Policy: Successful completion of this class requires taking the final examination **on its scheduled day**. The final examination schedule is posted on the [Class Schedules](#) site. No requests for early examinations or alternative days will be approved.

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PLNU 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 becomes an expression of faith. Being of Wesleyan heritage, we aspire to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.