

Chemistry 3320L Course Syllabus

Instructor:	Dr. Terry Fernando
Office:	0757 Gilman
Office Hours:	M, W 2:15-3:15 pm or by appointment
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Chem 3310 and 3310L are pre-requisites for Chem 3320L. Chem 3320 and 3320L are co-requisite courses, i.e., students in Chem 3320L are required to take Chem 3320 at the same time or to have already received credit in 3320. Co-requisite course requirements are strictly enforced: Students who do not meet the co-requisites should drop the course or add the co-requisite as soon as possible or they will receive an F in the course. Students who drop or audit Chem 3320 will be required to drop 3320L.

Learning Objectives

During this second semester course you will be performing experiments which continue to reinforce techniques and concepts you learned during 3310L. In addition, you will be learning more about synthesizing various organic compounds with a variety of functional groups and using several mechanisms.

Required Personal Protective Equipment (PPE)

- Safety Eyewear: UVEX — Model S040C Safety Glasses or Jones & Co. Visorgogs or Magid Glove and Safety Manufacturing “Sapphire” safety glasses. Other types of protective eyewear require approval from course instructor.
- Lab coat: A mid-thigh or longer lab coat must be purchased. These are available at the bookstore, chemstores in 1400 Gilman Hall (credit card), and various online stores such as Amazon.
- Closed-toe shoes.

Course Materials

- You will use Microsoft Word and provided Lab Report templates for your lab reports.
- All required lab readings, lab report templates and tutorials are posted on Canvas. Submission links for your lab reports are also on Canvas.

Assessment

Assignment	Percent of Final Grade
Safety Assignments	4
Lab Reports (11)	94
Check-out	2

Grading

Grading scale for final grades: A \geq 93%, A- \geq 90%, B+ \geq 87%, B \geq 83%, B- \geq 80%, C+ \geq 77%, C \geq 73%, C- \geq 70%, D+ \geq 67%, D \geq 63%, and D- \geq 60%, and F < 60%.

Grades are rounded up at the end of the semester. (e.g. 92.5% => 93%)

See important Course Policies on Course Canvas Home Page

Required and Suggested ISU Syllabus Statements: Click [Here](#)

Experiment Schedule		
Week #	Week of	Experiment
1	1/20/25	332L Intro
2	1/27/25	Ketone Reduction
3	2/3/25	Grignard
4	2/10/25	Grignard, Cont.
5	2/17/25	Diels Alder
6	2/24/25	EAS Bromination
7	3/3/25	EAS Alkylation
8	3/10/25	Wittig
9	3/17/25	Spring Break
10	3/24/25	Imine Synthesis
11	3/31/25	Fischer Esterification
12	4/7/25	Aldol Condensation
13	4/14/25	Oxazolone Synthesis Part 1
14	4/21/25	Oxazolone Synthesis Part 2
15	4/28/25	Checkout