

CHEM 3719L - Organic Chemistry 1 Laboratory

Fall 2026 Syllabus, Section 05, CRN 40754,

Credit hours: 1

Instructor

Peter Norris

Email: pnorris@ysu.edu

Public Instructor Information

Instructor Title: Dr.

Instructor Professional Qualifications: B.Sc. (Hons), Chemistry, Salford University (UK), 1986; Ph.D., Organic Chemistry, The Ohio State University, 1992

Instructor Office Location: Rm 5048 Ward Beecher Hall

Instructor Office Phone: (330) 941-1553

Course Description

3719L. Organic Chemistry 1 Laboratory. Typical techniques, preparations, and procedures of analysis of organic compounds. Three hours lab. Prereq.: "C" or better in CHEM 1516 and "C" or better in CHEM 1516L. Coreq.: CHEM 3719. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Organic Chemistry Lab Techniques	Nichols	Online

All experiments and techniques are referenced to the free Nichols book hosted by Libretexts. All required pre-lab reading is linked through Blackboard.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Wk 1 Blackboard - Safety Wk 2 Blackboard - Molview	Lab Safety Data Gathering	Blackboard reading on safety and course syllabus Blackboard introduction to Molview and Chemspider
8/31	Wk 3 Blackboard - Glassware	Glassware and Measurement	Blackboard prelab reading on Glassware and Measurement
9/7	Wk 4 Blackboard - Solubility	Solubility and Miscibility	Blackboard prelab reading on Solubility and Miscibility
9/14	Wk 5 Blackboard - Recrystallization	Recrystallization of Solids	Blackboard prelab reading on Recrystallization of Solids
9/21	Wk 6 Blackboard - Stereochemistry	Conformational Analysis and Chirality	Lecture reading on Conformation and Configuration
9/28	Wk 7 Blackboard - Spectroscopy	Spectroscopic Analysis of Molecules	Lecture reading on IR, MS, NMR Spectroscopy
10/5	Wk 8 Blackboard - Extraction & TLC	Extraction and TLC protocols	Blackboard reading on Extraction and TLC techniques
10/12	Wk 9 Blackboard - Distillation	Distillation of Liquids	Blackboard reading on Distillation of Organic liquids

10/19	Wk 10 Blackboard - Substitution 1	Substitution of an Alcohol 1	Blackboard and Lecture reading on Substitutions
10/26	Wk 11 Blackboard - Substitution 2	Substitution of an Alcohol 2	Blackboard and Lecture reading on Substitutions
11/2	Wk 12 Blackboard - Elimination 1	Elimination from an Alcohol 1	Blackboard and Lecture reading on Eliminations
11/9	Wk 13 Blackboard - Elimination 2	Elimination from an Alcohol 2	Blackboard and Lecture reading on Eliminations
11/16	Week of Thanksgiving	No Labs	No Labs
11/23	Wk 15 Online Lab Final	Lab final on Blackboard	Lab final on techniques and experiments from the semester
11/30	Final Exam Week	No Labs	No Labs

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