CHEM 3719L - Organic Chemistry 1 Laboratory

Fall 2026 Syllabus, Section 07, CRN 40756,

Credit hours: 1

Instructor

Peter Norris

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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
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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	Blackboad prelab reading on Glassware and Measurement
9/7	Wk 4 Blackboard - Solubility	Solbility 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	Confomational Analysis and Chirality	Lecture reading on Conformation and Configuration
9/28	Wk 7 Blackboard - Spectrocopy	Spectroscopic Analysis or 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

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.