

CHEN 3787L - Unit Operations Laboratory 1

Fall 2026 Syllabus, Section 01, CRN 41291,

Credit hours: 1

Instructor

Zhuanzhuan Xie

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Public Instructor Information

Instructor Title: Senior Lecturer

Instructor Professional Qualifications: Ph. D., Chemical Engineering, University of Kansas, 2013

Instructor Office Location: Moser Hall 2068

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Course Description

3787L. Unit Operations Laboratory 1. Experiments in absorption, cascade operations, reaction kinetics, mixing and other chemical engineering operations employing industrial and pilot plant size equipment and instrumentation. Treatment of experimental data, correlations and comparison with theory. Oral presentations and preparation of technical reports. Three hour laboratory. Prereq.: CHEN 3787. 1 s.h.

Course Readings

Group	Title	Author	ISBN
No readings			

No textbook is required. Any textbooks or websites used in the lab reports are acceptable with proper citations.

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	Proposed Topic	Due/To Prepare for Class
8/24	Introduction and team assignments	
8/31	Lab 1	
9/7	Lab 1	
9/14	Lab 2	Lab 1 Data and Tech reports due
9/21	Lab 2	Lab 1 Leader reports due
9/28	Lab 3	Lab 2 Data and Tech reports due
10/5	Lab 3	Lab 2 Leader reports due
10/12	Lab 4	Lab 3 Data and Tech reports due
10/19	Lab 4	Lab 3 Leader reports due
10/26	Lab 5	Lab 4 Data and Tech reports due
11/2	Lab 5	Lab 4 Leader reports due
11/9	Lab 6	Lab 5 Data and Tech reports due
11/16	Lab 6	Lab 5 Leader reports due
11/23	Thanksgiving break	Lab 6 Data and Tech reports due
11/30	Presentation	Lab 6 Leader reports due

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.