CHEM 1515L - General Chemistry 1 Laboratory

Fall 2026 Syllabus, Section 14, CRN 40717,

Credit hours: 1

Instructor

Janelle Mitchell

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Public Instructor Information

Instructor Title: Senior Lecturer
Instructor Professional Qualifications:

M.S., Chemistry, Youngstown State University
B.S., Chemistry, Youngstown State University
Instructor Office Location: WBH Room 5019
Instructor Office Phone: 330-941-7102

Course Description

1515L. General Chemistry 1 Laboratory. Quantitative experiments focusing on topics covered in CHEM 1515 lectures. Three hours lab. Prereq.: “C” or better in CHEM 1501 or equivalent and MATH 1513 or MATH 1510 or MATH 1510C. Coreq.: CHEM 1515. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	A Laboratory Manual for General Chemistry 1515L,2026.	B.D. Leskiw	9781645654919

Each student must bring a lab manual to every lab session.

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 Lab Experiments

Day	Date	Proposed Topic	Due/To Prepare for Class
Thu	8/27	No Lab	
Thu	9/3	Experiment 1: Introduction and Safety; Significant Figures and Scientific Notation	
Thu	9/10	Experiment 2: Density Determination of Liquids and Solids	
Thu	9/17	Experiment 3: Chemical Nomenclature	
Thu	9/24	Experiment 4: Determining the Percentage of KClO3 in a Mixture	
Thu	10/1	Experiment 5: Limiting Reagents	
Thu	10/8	Experiment 6: Volumetric Titration	
Thu	10/15	Experiment 7: Antacid Analysis	
Thu	10/22	Experiment 8: Determining the Molar Mass of a Volatile Liquid	
Thu	10/29	Experiment 9: Determining the Molar Volume of a Gas	

Thu	11/5	Experiment 10: The Specific Heat Determination of Unknown Metals
Thu	11/12	Experiment 11: Heat of Netralization
Thu	11/19	Make-up
Thu	11/26	No Lab: Legal Holiday
Thu	12/3	Experiment 12: Lewis Dot Structure and Molecular Geometry
Thu	12/10	No lab; Finals Week

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.