

CHEM 1516L - General Chemistry 2 Laboratory

Summer 2026 Syllabus, Section 02, CRN 30031,

Credit hours: 1

Instructor

Dr. Brian D. Leskiw

Professional Qualifications:

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Blackboard message board

Preferred Contact Method: Email preferred

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Course Description

1516L. General Chemistry 2 Laboratory. Quantitative experiments focusing on topics covered in CHEM 1516 lectures. Three hours lab. Prereq.: "C" or better in CHEM 1515L; "C" or better in CHEM 1515. Coreq.: CHEM 1516. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Required	A Laboratory Manual for General Chemistry 1516L	B.D. Leskiw	

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

Day	Date	Proposed Topic	Due/To Prepare for Class
Mon	6/29		
Wed	7/1	Exp. 1: Enthalpy of Fusion	
Fri	7/3		
Mon	7/6	Exp. 2: The Solubility of Potassium Nitrate in Water	
Wed	7/8	Exp. 3: Colligative Properties: A Molecular Weight Determination	
Fri	7/10		
Mon	7/13	Exp. 4: The Determination of an Equilibrium Constant Using Beer's Law	
Wed	7/15	Exp. 5: The Determination of K_a for a Weak Acid	

Fri	7/17	
Mon	7/20	Exp. 6: Potentiometric Determination of the Dissociation Constant
Wed	7/22	Exp. 7: Group 1 Cation Separation and Analysis
Fri	7/24	
Mon	7/27	Exp. 8: Group 2 Cation Separation and Analysis
Wed	7/29	Exp. 9: Group 3 Cation Separation and Analysis
Fri	7/31	
Mon	8/3	Exp. 10: Groups 1-3 Cation Separation
Wed	8/5	Exp. 10: Groups 1-3 Cation Separation
Fri	8/7	
Mon	8/10	Make-up
Wed	8/12	Exp. 10: Groups 1-3 Cation Separation
Fri	8/14	

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.