

Chemistry Curriculum Map

Course	SLO 1*				SLO 2	SLO 3	SLO 4
	1.1	1.2	1.3	1.4			
Chem 116: General Chemistry I Lect/Lab	×	×	×		×	×	
Chem 117: General Chemistry II Lect/Lab	×	×	×		×	×	
Chem 211: Organic Chemistry I Lect/Lab	×	×	×	×	×	×	
Chem 213: Organic Chemistry II Lect/Lab		×	×	×	×	×	
Chem 324: Quant. Analyt. Chem Lect/Lab			×	×	×	×	
Chem 350: Physical Chemistry I Lect/Lab			×	×	×	×	
Chem 352: Physical Chemistry II Lect/Lab	×	×		×	×	×	×
Chem 421: Advanced Org. Chemistry Lect		×	×				×
Chem 427: Instrumental Analysis Lect/Lab				×	×	×	
Chem 425: Biochemistry I Lect		×	×				
Chem 430: Experimental Biochemistry Lab					×	×	
Chem 451: Advanced Inorganic Lect/Lab	×	×		×	×	×	
Chem 445: Medicinal Chemistry Lect		×	×				×
Chem 446: Biochemistry II Lect		×	×				×
Srsh 301/302/401/402: TAS Research Honors						×	

Chemistry Program Goals & Student Learning Outcomes

Goal 1. Demonstrate a broad chemical knowledge base that stresses scientific reasoning and analytical problem solving.

Outcome 1. Demonstrate a comprehensive knowledge of chemistry and its applications. This broadly defined outcome has been broken down into four general sub-levels.

1.1 The Law of Conservation of Mass and Atomic Theory

1.2 Theories of Structure and Bonding

1.3 Understanding Chemical Reactions

1.4 Spectroscopy and Methods of Chemical Investigation

Goal 2. Effectively communicate scientific information.

Outcome 2. Write comprehensive laboratory reports that follow ACS guidelines for publishing academic material.

Outcome 4. Demonstrate their ability to search for, comprehend and critically evaluate scientific literature through classroom presentations and reports.

Goal 3. Demonstrate competency in the laboratory skills necessary to acquire, analyze and interpret experimental results.

Outcome 3. Use laboratory techniques to perform complicated experimental procedures and have a working knowledge of modern instrumentation.