

CHEMISTRY, M.S.

The M.S. in Chemistry will develop a student's ability to integrate advanced chemistry knowledge and critical-thinking skills to effectively approach scientific problems grounded in chemistry. In addition, graduates will gain the ability to clearly and persuasively communicate advanced scientific ideas across scientific disciplines and to non-scientists alike.

The curriculum is designed to prepare graduates for successful careers in industry or chemistry education. It is anchored by four core courses covering fundamental chemistry concepts in thermodynamics, bonding, effective scientific communication and spectroscopy. These core courses are supplemented by 10 elective courses spanning all sub-disciplines of chemistry, including chemistry education.

Contact Information

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Requirements

Students must achieve the following program requirements for all courses listed under "Program Required Courses" for the Masters in Chemistry.

Program Requirements

Major Credits: 30

Minimum GPA: 3.0

Minimum Grade: C

Program Required Courses

Code	Title	Credits
Core Courses		12
CHM 6001	Bonding and Materials	
CHM 6002	Topics in Thermodynamics ¹ or CHM 6005 Topics in Kinetics	
CHM 6003	Advanced Spectroscopy	
CHM 6004	Chemical Information and Communication	
Elective Courses		18
CHM 6005	Topics in Kinetics or CHM 6002 Topics in Thermodynamics	
CHM 6101	Medical Biochemistry	
CHM 6102	Bioanalytical Chemistry	
CHM 6103	Chemical Education	
CHM 6104	Energy and Environment	
CHM 6110	Advanced Pharmaceutical Chemistry	
CHM 6111	Chemistry of the Elements	
CHM 6113	Organometallic Reactions and Structures	
CHM 6777	Topics in Chemistry (Introduction to Computational Chemistry)	
CHM 6777	Topics in Chemistry (Advanced Instrumentation and Analysis)	
CHM 6777	Topics in Chemistry (Analytical Electrochemistry)	
CHM 6777	Topics in Chemistry (Advanced Separations)	
CHM 6777	Topics in Chemistry (Advanced Organic Synthesis)	

¹ If both CHM 6002 and CHM 6005 are taken, one will be counted as an elective.