

CHEMISTRY MAJOR FOR THE HIGH SCHOOL TEACHING LICENSE (9 -12) / BACHELOR OF ARTS

Total Credit Hours: 120

Major Credit Hours: 54

The Department of Chemistry features a fully approved Chemistry program that prepares candidates to teach grades 9 -12 in Illinois public and private schools. The program is approved by the State Educator Preparation and Licensure Board in conjunction with the Illinois State Board of Education and includes all the requirements for a major in Chemistry. Chemistry majors must declare majors in both Chemistry and Secondary Education. See advisors in the Department of Chemistry and the Department of Education for specific approval and a list of required courses.

Teacher Candidates seeking a Professional Educator License with a Chemistry Endorsement must complete all requirements of the Department of Education (<https://catalog.lewisu.edu/undergraduate/education-social-sciences/education/>) and the following coursework in the content area as well as professional education courses. Only grades of "C" and above are acceptable in professional education courses and any courses counted toward any endorsement or license. A "C-" or lower grade will require that the course be repeated.

Requirements

Degree Requirements

Chemistry Department Policies

A grade "C-" or better must earn in a prerequisite course in order to advance to the next course in the sequence. A chemistry course may be taken only twice at Lewis University. If a student has not achieved a minimum of "C-" after the second attempt, the student may not repeat the class at Lewis. Chemistry majors may not double major in Biochemistry or minor in Biochemistry.

Core Courses in Chemistry Major for Teacher Licensure

Code	Title	Hours
Chemistry Requirements		
CHEM 11000	General Chemistry 1	4
CHEM 11100	General Chemistry 1 Lab	1
CHEM 11500	General Chemistry 2	4
CHEM 11600	General Chemistry 2 Lab	1
CHEM 23000	Organic Chemistry I	3
CHEM 23200	Fundamental Spectroscopy	2
CHEM 23500	Organic Chemistry 2	3
CHEM 23600	Organic Chemistry Lab for Chemistry/Biochemistry Majors	2
CHEM 24200	Introduction to Solid State Chemistry	2
CHEM 29600	Research Methods Seminar	1
CHEM 33200	Advanced Instrumental Analysis	2
CHEM 39700	Chemistry/Biochemistry Seminar	1

CHEM 46500	Capstone Project	1
Biology Requirements		
Select one of the following:		3-4
BIOL 10600	Introduction to Environmental Science	
BIOL 10800	Introduction to Human Biology	
BIOL 12200	Integrated Science 2	
& BIOL 12300	and Integrated Science 2 Lab	
Physics Sequence		
Select one of the following Physics sequences:		10-12
Physics Sequence 1:		
PHYS 20000	College Physics 1	
PHYS 20100	College Physics 1 Lab	
PHYS 20500	College Physics 2	
PHYS 20600	College Physics 2 Lab	
Physics Sequence 2:		
PHYS 21000	General Physics 1	
PHYS 21100	General Physics 1 Lab	
PHYS 21500	General Physics 2	
PHYS 21600	General Physics 2 Lab	
PHYS 21800	General Physics 3	
PHYS 21900	General Physics 3 Lab	
Other Requirements		
MATH 20900	Calculus 1	4
MATH 22000	Applied Probability and Statistics	3
MATH 23500	Calculus 2	4
PHYS 10500	Introduction to Astronomy	3
Total Hours		54-57

Professional Educator License

Secondary education majors must complete the professional educator program of study in their subject area. See content area for Secondary Licensure content requirements.