

CHEMISTRY, MINOR

Chemistry is concerned with the study of matter and the changes matter can undergo. The chemistry program provides a basic foundation for career opportunities in chemical research and teaching, in scientific communication and information transfer, and in the health professions. The chemistry minor provides an introduction to several areas of chemistry, providing exposure to both lecture and laboratory courses.

For more information: <http://www.chem.upenn.edu/node/9> (<http://www.chem.upenn.edu/node/9/>)

Note: Other departments' courses may not be substituted.

Code	Title	Course Units
Minor Requirements		
<i>Core Courses</i>		
General Chemistry:		
CHEM 1011 or CHEM 1151	Introduction to General Chemistry I Honors Chemistry I	1
CHEM 1021 or CHEM 1161	Introduction to General Chemistry II Honors Chemistry II	1
General Chemistry Laboratories:		
CHEM 1101 & CHEM 1102	General Chemistry Laboratory I and General Chemistry Laboratory II	1
<i>Upper Level Chemistry</i>		
Select one of the following:		1
CHEM 2230 CHEM 2460	Experimental Physical Chemistry I Advanced Synthesis and Spectroscopy Laboratory	
Select 3 course units of Upper Level Chemistry courses at the 2000 level and above ¹		3
Total Course Units		7

¹ CHEM 2999 Directed Study and Seminar & CHEM 3999 Independent Research may NOT be counted.

The degree and major requirements displayed are intended as a guide for students entering in the Fall of 2023 and later. Students should consult with their academic program regarding final certifications and requirements for graduation.
