

BA in Chemistry

Program Requirements

A minimum total of 120 credit hours is required for the BA in chemistry. In addition to meeting the requirements of the WSU General Education Program (<http://catalog.wichita.edu/undergraduate/academic-information/general-education-program/>) and the requirements of Fairmount College of Liberal Arts and Sciences, students must meet the following requirements:

Course	Title	Hours
General Education		
Select courses to meet General Education requirements ¹		34-35
College Requirements		
LAS Competencies and Electives - select enough courses to reach 120 credit hours and complete all LAS Competency Areas ¹		16-17
Major Requirements		
CHEM 211 & CHEM 212	General Chemistry I and General Chemistry II	10
CHEM 523 & CHEM 524	Analytical Chemistry and Instrumental Methods of Chemical Analysis ²	8
CHEM 531 & CHEM 532	Organic Chemistry I and Organic Chemistry II	10
CHEM 545 & CHEM 546	Physical Chemistry I and Physical Chemistry II ²	6
CHEM 547	Physical Chemistry Lab ²	2
Select 5 credit hours of world language beyond 111–112 in one language or equivalent to 112 in two languages.		5
Prerequisites for the required chemistry courses include the following courses (or their equivalents).		
MATH 112	Precalculus Mathematics	5
MATH 242	Calculus I	5
MATH 243	Calculus II	5
MATH 344	Calculus III	3
PHYS 313	Physics for Scientists I	4
PHYS 314	Physics for Scientists II	4
PHYS 315	University Physics Lab I	1
PHYS 316	University Physics Lab II	1
Total Credit Hours		120

¹ Required major courses may also count towards General Education and/or LAS Competencies. Students will need to select additional electives to reach 120 credit hours required for graduation with assistance from an advisor.

² Students who wish to take biochemistry or inorganic chemistry may satisfy the BA requirements with one of the following three alternatives:

1. Replace CHEM 524 with CHEM 514 and CHEM 661; or
2. Replace CHEM 547 and either CHEM 545 or CHEM 546 with CHEM 514 and CHEM 661; or
3. Replace CHEM 524, CHEM 547 and either CHEM 545 or CHEM 546 with CHEM 662, CHEM 663 and CHEM 664.

Applied Learning

Students in the BA in chemistry program are required to complete an applied learning or research experience to graduate from the program. The requirements can be met by enrollment in two credit hours of CHEM 690 or CHEM 481.