BS in Chemistry - ACS Biochemistry Option

Program Requirements

The curriculum for the BS in chemistry (either the chemistry or biochemistry option) is approved by the American Chemical Society for the professional training of chemists. It is strongly recommended that students interested in advanced study in chemistry or biochemistry should pursue this degree. Students completing the program receive certification from the American Chemical Society.

In agreement with the American Chemical Society Committee on Professional Training, the chemistry and biochemistry department strongly encourages students studying for the BS degree to select courses in computer science, economics, marketing and business, and to use every opportunity to develop competence in technical writing and oral communication.

A minimum total of 120 credit hours is required for the BS in chemistry - ACS biochemistry. 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]		6-7
Major Requirements		
CHEM 211	General Chemistry I	5
CHEM 212	General Chemistry II	5
CHEM 523	Analytical Chemistry	4
CHEM 524	Instrumental Methods of Chemical Analysis	4
CHEM 531	Organic Chemistry I	5
CHEM 532	Organic Chemistry II	5
CHEM 545	Physical Chemistry I	3
CHEM 546	Physical Chemistry II	3
CHEM 547	Physical Chemistry Lab [2]	2
or CHEM 616	Inorganic Chemistry Lab	
CHEM 662	Biochemistry I	3
CHEM 663	Biochemistry II	3
CHEM 664	Biochemistry Laboratory	3
CHEM 690	Independent Study and Research	2
BIOL 210	General Biology I	4
BIOL 211	General Biology II	4
BIOL 420	Molecular Cell Biology	4
MATH 242	Calculus I	5
MATH 243	Calculus II	5
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] CHEM 616 requires CHEM 615 as corequisite.

Applied Learning

Students in the BS in chemistry — ACS biochemistry program are required to complete an applied learning or research experience to graduate from the program. The requirement can be met by completing at least one semester of undergraduate research, by enrollment in CHEM 690.