BS in Chemistry - Premedicine

Program Requirements

This program is designed for students intending to pursue postgraduate education in medicine, pharmacy, optometry, dentistry, veterinary medicine or other health professions. Students who intend to pursue graduate studies in chemistry or biochemistry should consider the BS in chemistry degree program (either the chemistry or biochemistry option).

A minimum total of 120 credit hours is required for the BS in chemistry - premedicine. 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[1]:

Course	Title	Hours
General Education		
Select courses to meet General Education requirements [2]		34-35
College Requirements		
LAS Competencies and Electives - select enough courses to reach 120 credit hours and complete all LAS Competency Areas [2]		0-2
Major Requirements		
CHEM 211	General Chemistry I	5
CHEM 212	General Chemistry II	5
CHEM 523	Analytical Chemistry	4
CHEM 531	Organic Chemistry I	5
CHEM 532	Organic Chemistry II	5
CHEM 662	Biochemistry I	3
CHEM 663	Biochemistry II	3
CHEM 664	Biochemistry Laboratory	3
CHEM 690	Independent Study and Research	2
Select one of the following (CHEM 605 strongly recommended)		3
CHEM 605	Medicinal Chemistry	
HS 301	Clinical Pharmacology	
Select a one-year sequence of physics courses, including lab, numbered above 200		10
MATH 242	Calculus I	5
MATH 243	Calculus II	5
BIOL 210	General Biology I	4
BIOL 211	General Biology II	4
BIOL 419	Genetics	4
BIOL 223 & 223L	Human Anatomy and Physiology and Human Anatomy/Physio Lab	5
Select one of the following courses		4-5
BIOL 220	Introduction to Microbiology	
BIOL 330	General Microbiology	
BIOL 420	Molecular Cell Biology	
HS 600	Advanced Clinical Anatomy	5
Total Credit Hours		**120**

1 And their necessary prerequisites.

2 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.

Applied Learning

Students in the BS in chemistry — premedicine 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.