

B.S. in Chemistry with Biochemistry Track

REQUIREMENTS

Major Field

<u>Course</u>	<u>Title</u>	<u>Year</u>	<u>Pre(co)requisite</u>	<u>Hours</u>
Chem 111	General Chemistry I	1	H.S. chem	4
Chem 112	General Chemistry II	1	Chem 111	4
Chem 221	Organic Chemistry I	2	Chem 112	4
Chem 322	Organic Chemistry II	2	Chem 221	4
Chem 331	Biochemistry I	3 or 4	Chem 322	4
Chem 332	Biochemistry II	3 or 4	Chem 331	4
or Chem 333	Macromolecular Biochem	3 or 4	Chem 221	3
Chem 350*	Elementary Physical Chem	3	Phys 204, Chem 221	3
Chem 398	Undergrad seminar	4	Chem 350 or 352	1
Biol 105	General Biology II	1	None	4
Biol 212	General Genetics	2 or 3	Biol 105	4
Biol 211	Intro to Cell and Molecular Biol.	2 or 3	Biol 105	3

Total credit hours: 38-39

*(Chem 351-352 Physical Chemistry I and II 3 Phys 204, Chem 351 4+4
may be substituted for Chem 350 with 5 s.h. applied below)

Select a minimum of 8 s.h. from the following:

Biol 340	Molecular Biology	3 or 4	Biol 212, Chem 221	4
Biol 362	Microbiology	3 or 4	Biol 105, Chem 322	4
Biol 370	General Physiology	3 or 4	Biol 105, Chem 221	3
Biol 380	Cell Biology	3 or 4	Biol 105, Chem 221	3
Biol 373	Plant Growth & Development	3 or 4	Biol 105, Chem 221	3
Biol 399	Independent Study in Biology	4	Permission	1-6
Chem 241	Descriptive Inorganic Chem	2	Chem 111-112	2
Chem 315	Environ. Health Chem	3 or 4	Chem 221	3
Chem 323	Advanced Organic Chem	3 or 4	Chem 322	3
Chem 324	Physical Organic Chem	3 or 4	Chem 322, 352	3
Chem 342	Theories of Inorganic Chem	3 or 4	Chem 352	3
Chem 361	Analytical Chemistry I	3 or 4	Phys 203, Chem 322	4
Chem 362	Analytical Chemistry II	3 or 4	Chem 361 (352)	4
Chem 399	Independent Study in Chem	4	Permission	1-3

B. Related Work: Total = 16

Math 173	Calculus I	1	Math 105 or H.S. Math	4
Math 174	Calculus II	1	Math 173	4
Phys 203	General Physics I	2	(Math 173)	4
Phys 204	General Physics II	2 or 3	Phys 203 (Math 174)	4

C. Remaining degree requirements. (A minimum of 59-60 s.h. are required to equal 122.)

When completing the general education requirements, the student is encouraged to take electives in statistics and computer science, if possible. A biology minor is possible taking BIOL 100 (or substitute) and 2-3 biology courses under "Select" above.