Biochemistry Curriculum, B.S. Degree

First Year

Fall		*Spring*	
CHEM 1307, Prin. of Chem I	3	CHEM 1308, Prin. of Chem II	3
CHEM 1107, Exp. Prin. of Chem. I	1	CHEM 1108, Ex. Prin. of Chem II	1
BIOL 1403*, Biology I	4	BIOL 1404*, Biology II	4
American History†	3	American History†	3
MATH 1451**, Calculus I	4	MATH 1452**, Calculus II	4
CHEM 1100, Intro. Biochem. Res.	1	PF&W†	1
TOTAL	16	TOTAL	16

Second Year

Fall		*Spring*	
CHEM 3305, Org. Chem. I	3	CHEM 3306, Org. Chem II	3
CHEM 3105, Exp. Org. Chem. I	1	CHEM 3106, Exp. Org. Chem II	1
ENGL 1301, Ess. Coll. Rhetoric	3	CHEM 3351, Analytical Chem.	3
PHYS 1408, Prin. of Physics I	4	PHYS 2401, Prin. of Physics II	4
BIOL 3416, Genetics	4	ENGL 1302, Adv. Coll. Rhetoric	3
TOTAL	15	TOTAL	14

Third Year

Fall		*Spring*	
CHEM 3311, Biol. Chem. I	3	CHEM 3312, Biol. Chem. II	3
MBIO 3401, Prin. of Micro.	4	CHEM 3313, Exp. Biol. Chem.	3
English†	3	CHEM 3314, Biol. Chem. III	3
Visual/Performing Arts Elective†¥	3	Foreign Language†‡	3
PF&W†	1	POLS 1301, Amer. Gov't., Org.†	3
TOTAL	14	TOTAL	15

Fourth Year

Fall		*Spring*	
CHEM 4311, Phys. Chem. Biol. Sci.	3	CHEM 4312, Physical Biochemistry	3
Social/Behavioral Science Elect.†¥	3	English†	3
Foreign Language†	3	Advanced Elective+	3
Advanced Elective+	3	POLS 2302, Amer. Pub. Pol.†	3
Oral Communications†	3	Elective∆	3
TOTAL	15	TOTAL	15
		DEGREE TOTAL:	120

*Failure to complete BIOL 1403 and 1404 in the first year will make the B.S. degree difficult to complete in four years without taking courses during summer sessions.

**Adequate training in algebra, trigonometry, and analytic geometry is a prerequisite for calculus. A score of 7 on the Math Placement Exam is necessary to take calculus the first year. Scores below 7 will require additional classes which will make the degree longer than 120 hours.

+six advanced elective hours: (1 course from) BIOL 3320, 4320, MBIO 4402, 4404; (1 course from) CHEM 3000 (3), 4300, 3301, 4309, 4314

‡A student must complete 6 hours at the sophomore level or above in a single language. The prerequisite for all sophomore language courses is credit for the freshman level. This credit can be determined through a placement or CLEP exam. The score attained on either exam will determine whether the student is placed in a second-year course, a 5-hour review course, or in some cases the first or second semester of a beginning (first year) language course. See Arts and Scienes General Degree Requirements for further explanation.

†Select from Arts and Sciences General Degree Requirements.
¥Can also be multicultural; if one of these is not, you will need an additional 3 hour MC course.
∆May be outside of major
Taking either CHEM 3301 or 4309; and CHEM 4105; and 3251 will complete ACS requirements