

BS CHEM: BIOCHEM CONC (also PREMED/DENT)

Major Courses (46 hours):

Course Title	Hrs	Course Number
General Chemistry I (with lab)	4	CHEM 1110/1110L
General Chemistry II (with lab)	4	CHEM 1120/1120L
Scientific Communication	2	CHEM 2810
Organic Chemistry I (with lab)	4	CHEM 3010/3010L
Organic Chemistry II (with lab)	4	CHEM 3020/3020L
Quantitative Analysis (with lab)	4	CHEM 3210/3210L
Inorganic Chemistry	3	CHEM 3310
Physical Chemistry I (with lab)	4	CHEM 3710/3710L

Course Title	Hrs	Course Number
Physical Chemistry II (with lab)	4	CHEM 3720/3720L
Chemical Literature	1	CHEM 3820
Instrumental Analysis (with lab)	4	CHEM 4230/4230L
Biochemistry	3	CHEM 4510
Proteins and Nucleic Acids	4	CHEM 4530/4530L
Seminar	1	CHEM 4830
CHEM Research Recommended		

Related Courses (39 hours):

Course Title	Hrs	Course Number
Physics – Mech/Heat (with lab) or Calculus Based Physics (M/H)	4 or 4	PHYS 1030/1030L or PHYS 2300/2300L
Calculus I (with lab)	4	MATH 1910/1911
Principles of Biology I (with lab)	4	BIOL 1110/1110L
Genetics (lab recommended)	3(4)	BIOL 3250(3260)
1 yr Foreign Language	8	

Course Title	Hrs	Course Number
Physics – Elect/Optics (with lab) or Calculus Based Physics (E/M)	4 or 4	PHYS 1040/1040L or PHYS 2310/2310L
Calculus II (with lab)	4	MATH 1920/1921
Principles of Biology II	4	1120/1120L
Biology Elective	4	3110/3110L, 4120, 4200/4200L, 4280 or 4600/4600L

General Education (42 hours – some fulfilled within major):

Category	Hrs	Courses
Rhetoric & Composition I/II	6	ENGL 1010 & 1020
Cultures and Civilizations	9	Various (see catalog)
Humanities/Fine Arts	6	Various (at least 3 hrs in Fine Arts)

Category	Hrs	Courses
Behavioral and Social Sciences	6	Various (in two different disciplines)
Natural Sciences	8	Completed with Physics requirement
Mathematics and Statistics	7	Math 1910/1911 and Math 2100

Electives to complete 120 hours.

Sample Schedule							
Freshman		Sophomore		Junior		Senior	
Fall	Hrs	Fall	Hrs	Fall	Hrs	Fall	Hrs
CHEM 1110/1110L	4	CHEM 3010/3010L	4	CHEM 3710/3710L	4	CHEM 3310	3
ENGL 1010	3	CHEM 3210/3210L	4	CHEM 3820	1	CHEM 4230/4230L	4
MATH 1910/1911	4	PHYS 1030/1030L	4	CHEM 4510	3	CHEM 4830	1
BIOL 1110/1110L	4	Behav/Soc Science	3	For Lang I	4	Cult and Civil	3
				Cult and Civil	3	Hum/Fine Art	3
Total	15	Total	15	Total	15	Total	14
Spring	Hrs	Spring	Hrs	Spring	Hrs	Spring	Hrs
CHEM 1120/1120L	4	CHEM2810	2	CHEM 3720/3720L	4	CHEM 4530/4530L	4
ENGL 1020	3	CHEM 3020/3020L	4	MATH 2100	3	Behav/Soc Science	3
MATH 1920/1921	4	PHYS 1040/1040L	4	For Lang II	4	Fine Art	3
BIOL 1120/1120L	4	BIOL 3250 (3260)	3 (4)	BIOL Elective	4	Electives	5
		Cult and Civil	3				
Total	15	Total	16 (17)	Total	15	Total	14

Students beginning lower than MATH 1910/1911 must add lower MATH classes and should plan to take math each semester until MATH 1920/1921 is completed.

If Level 05, then MATH 1005.

If Level 15, then MATH 1006.

If Level 20 or Math ACT 24, then MATH 1710.

If Level 30 or Math ACT 26, then MATH 1720.