

BS Biochemistry / MS Bioinformatics and Computational Biology (5 years)

First Year			
Fall	18	Spring	18
CHEM 1130/1115: Chem. for Majors I+lab	4	CHEM 1140/1125: Chem. for Majors II+lab	4
BIOL 1240/1245: Principles of Biology I+lab	4	BIOL 1260/1265: Principles of Biology II+lab	4
MATH 1510: Calculus I	4	MATH 1520: Calculus II	4
CSCI 1020: Intro. to CS – Bioinformatics	3	Core: Social Science	3
Core: English 1900 or 1940	3	Core: Foreign Language 1010	3
		CHEM 1950: First-year Mentoring	0

Second Year			
Fall	18	Spring	18
CHEM 2430/2435: Organic Chemistry I+lab	4	CHEM 2440/2445: Organic Chemistry II+lab	4
PHYS 1610/1620: Engineering Physics I+lab	4	PHYS 1630/1640: Engineering Physics II+lab	4
CHEM 2200/2205: Analytical Chem. I+lab	4	CSCI 1300: Intro. to Obj-Oriented Prog.	4
Core: Foreign Language 1020	3	MATH 1660: Discrete Mathematics	3
Core: Philosophy 1050	3	Core: Philosophy 2050 (Ethics)	3
		CHEM 2950: Second-year Mentoring	0

Third Year			
Fall	18	Spring	15
CHEM 4610/4615: Biochem I+lab (BS+MS)	4	CHEM 4620/4625: Biochem II+lab (BS+MS)	4
CHEM 3330: Physical Chem. I	3	CHEM 3340/3345: Physical Chem. II + Lab	4
CHEM 3100: Chemical Literature	1	CHEM 3970: Undergraduate Research	1
Core: Social Science	3	Core: English Literature	3
Core: History 1110	3	Core: History 1120	3
CSCI 2100: Data Structures	4		

Fourth Year			
Fall	16	Spring	16
BIOL 3030: Principles of Genetics	3	BIOL 3040: Molec/Cell Biology II	3
MATH 3850: Found. Statistics	3	Core: Fine and Performing Arts	3
CHEM 4500: Inorganic Chemistry	3	CHEM Elective	3
CHEM 3970: Undergraduate Research	1	CHEM 3970: Undergraduate Research	1
Core: Theology 1000	3	Core: Theology 2xxx	3
BCB 5200: Intro. to Bioinformatics I	3	BCB 5250: Intro. to Bioinformatics II	3

Summer	3		
Internship/Research	3	(highly-recommended as summer experience)	

Fifth Year			
Fall	9	Spring	6
BCB 5300: Algorithms in Comp. Biology	3	BIOL 5030: Genomics	3
Group B choice	3	MS Elective	3
Group C choice	3	Bioinformatics Colloquium	0–1

Note: Students must satisfy the College's Diversity requirements, e.g. through choice of core electives