

## BA 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: Theology 1000	3
		CHEM 1950: First-year Mentoring	0

Second Year			
Fall	18	Spring	16
CHEM 2430/2435: Organic Chemistry I+lab	4	CHEM 2440/2445: Organic Chemistry II+lab	4
CHEM 2200/2205: Analytical Chem. I+lab	4	Core: Literature 2xxx	3
CSCI 1300: Intro. to Obj-Oriented Prog.	4	MATH 1660: Discrete Mathematics	3
Core: Foreign Language 1010	3	Core: Foreign Language 1020	3
Core: Philosophy 1050	3	Core: Philosophy 2050 (Ethics)	3
		CHEM 2950: Second-year Mentoring	0

Third Year			
Fall	18	Spring	16
CHEM 4610/4615: Biochem I+lab (BA+MS)	4	CHEM 4620: Biochem II (BA+MS)	3
PHYS 1610/1620: Engineering Physics I+lab	4	PHYS 1630/1640: Engineering Physics II+lab	4
CSCI 2100: Data Structures	4	Core: Literature 3xxx	3
Core: History 1110	3	Core: History 1120	3
Core: Theology 2xxx	3	Core: Theology 3xxx	3

Fourth Year			
Fall	18	Spring	15
CHEM 3330: Physical Chem. I or Elective	3	CHEM 3340: Physical Chem. II or Elective	3
MATH 3850: Found. Statistics	3	CHEM 3000+ Elective	3
BIOL 3030: Principles of Genetics	3	BIOL 3020 or 3040: Molec/Cell Biology	3
BCB 5200: Intro. to Bioinformatics I	3	BCB 5250: Intro. to Bioinformatics II	3
Core: Philosophy 3xxx	3	Core: Fine and Performing Arts	3
Core: Social Science	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 take at least one Physical Chemistry course

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