

## BA Mathematics / MS Bioinformatics and Computational Biology (5 years)

First Year			
Fall	14	Spring	14
MATH 1510: Calculus I	4	MATH 1520: Calculus II	4
BIOL 1240/1245: Principles of Biology I+lab	4	BIOL 1260/1265: Principles of Biology II+lab	4
CSCI 1020: Intro. to CS: Bioinformatics	3	Core: Theology 1000	3
Core: English 1900 or 1940	3	Core: Foreign Language 1010	3

Second Year			
Fall	17	Spring	17
MATH 2530: Calculus III	4	MATH 3120: Linear Algebra	3
MATH 2660: Principles of Math	3	CSCI 1300: Intro. to Obj-Oriented Prog.	4
CHEM 1110/1115: General Chemistry I+lab	4	CHEM 1120/1125: General Chemistry II+lab	4
Core: History 1110	3	Core: History 1120	3
Core: Foreign Language 1020	3	Core: Foreign Language 2010	3

Third Year			
Fall	16	Spring	15
MATH 3850: Found. Statistics	3	MATH 4800: Probability	3
CSCI 2100: Data Structures	4	Math 4210/4230/4840/4860/4870	3
BIOL 3020: Molec/Cell Biology I	3	BIOL 3030: Genetics	3
Core: Social Science	3	Core: Social Science	3
Core: Philosophy 1050	3	Core: Philosophy 2050 (Ethics)	3

Fourth Year			
Fall	15	Spring	15
Core: Literature 2xxx	3	Core: Literature 3xxx-4xxx	3
Core: Fine and Performing Arts	3	Core: Philosophy 3xxx	3
Core: Theology 2xxx	3	Core: Theology 3xxx	3
MATH 4850: Statistics (BA+MS)	3	CSCI 5750: Machine Learning (BA+MS)	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	9
BCB 5300: Algorithms in Comp. Biology	3	BIOL 5030: Genomics	3
Group B choice	3	MS Elective	3
MS Elective	3	Bioinformatics Colloquium	0-1

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