



BS in Computational Biology

Sample 4-Year Course Sequence

Student's individualized schedule may vary. Each student should consult with an advisor to determine their plan of study. A total of 128 credit hours is required to graduate, with an average of 16 credit hours per semester.

Course	Year 1		Year 2		Year 3		Year 4		TOT
	FA	SP	FA	SP	FA	SP	FA	SP	
Major Coursework									
Essentials of Biology I – lecture/lab	5								5
General Chemistry I – lecture/lab	4								4
Calculus	5								5
Essentials of Biology II – lecture/lab		5							5
General Chemistry II – lecture/lab		4							4
Intro to Computational Biology		3							3
Probability			3						3
Organic Chemistry I – lecture/lab			4						4
Computer Programming I			3						3
Evolution				3					3
Statistics				3					3
Computer Programming II				3					3
Genetics lecture/lab					4				4
Biochemistry I – lecture/lab					4				4
Data Analytics						3			3
Computational Biology						4			4
Research Methods							3		3
Gene Expression							3		3
Data Mining							3		3
Senior Thesis Capstone								4	4
Total Credits for Major									73
University Coursework									
Freshman Seminar	3								3
GCP Courses		3	6	6	3	3		3	24
Keystone Seminar								3	3
General Electives (within or outside of major)					6	7	6	6	25
Total Credits Per Semester	17	15	16	15	17	17	15	16	128



BS in Computational Biology/Study Abroad Sample 4-Year Course Sequence

Student's individualized schedule may vary. Each student should consult with an advisor to determine their plan of study. A total of 128 credit hours is required to graduate, with an average of 16 credit hours per semester.

Course	Year 1		Year 2		Year 3		Year 4		TOT
	FA	SP	FA	SP	FA	SP	FA	SP	
Major Coursework									
Essentials of Biology I – lecture/lab	5								5
General Chemistry I – lecture/lab	4					S			4
Calculus	5					T			5
Essentials of Biology II – lecture/lab		5				U			5
General Chemistry II – lecture/lab		4				D			4
Intro to Computational Biology		3				Y			3
Probability			3						3
Organic Chemistry I – lecture/lab			4			A			4
Computer Programming I			3			B			3
Evolution				3		R			3
Statistics				3		O			3
Computer Programming II				3		A			3
Genetics lecture/lab					4	D			4
Biochemistry I – lecture/lab					4				4
Data Analytics				3					3
Computational Biology								4	4
Research Methods							3		3
Gene Expression							3		3
Data Mining							3		3
Senior Thesis Capstone								4	4
Total Credits for Major									73
University Coursework									
Freshman Seminar	3								3
GCP Courses		3	6	3	3	6		3	24
Keystone Seminar								3	3
General Electives (within or outside of major)					6	9	7	3	25
Total Credits Per Semester	17	15	16	15	17	15	16	17	128