

**BACHELOR OF ARTS DEGREE
MAJOR IN BIOCHEMISTRY**

Freshman Year		Credit Hours
<u>Fall</u>		
BIOL 214 (+ lab)	Genes, Evolution and Ecology	(4)
CHEM 105	Principles of Chemistry I	(3)
or		
CHEM 111	Principles of Chemistry for Engineers	(4)
MATH 125/121	Math I / Calculus I	(4)
SAGES	First Seminar	(4)
PHED 100		<u>(0)</u>
	Total	(15-16)
 <u>Spring</u>		
BIOL 215 (+ lab)	Cells and Proteins	(4)
CHEM 106	Principles of Chemistry II	(3)
or		
ENGR 145	Chemistry of Materials	(4)
CHEM 113	Principles of Chemistry Laboratory	(2)
MATH 126/122/124	Math II / Calculus II	(4)
SAGES	University Seminar I	(3)
PHED 100		<u>(0)</u>
	Total	(16-17)
 Sophomore Year		
<u>Fall</u>		
CHEM 223/323	Organic Chemistry I	(3)
CHEM 233	Organic Chemistry Laboratory I	(2)
PHYS 115/121/123	Physics I - Mechanics	(4)
SAGES	University Seminar II	(3)
GER course		<u>(3)</u>
	Total	(15)
 <u>Spring</u>		
CHEM 224/324	Organic Chemistry II	(3)
CHEM 234	Organic Chemistry Laboratory II	(2)
PHYS 116/122/124	Physics II – Electricity & Magnetism	(4)
GER courses		<u>(6)</u>
	Total	(15)

Junior Year

Fall

BIOC 307	Introduction to Biochemistry	(4)
CHEM 301/335	Physical Chemistry I	(3)
SAGES	University Seminar II	(3)
¹ STAT 201/312R/313	Statistics	(3)
GER course or elective		<u>(3)</u>
	Total	(16)

Spring

BIOC 308	Molecular Biology	(4)
BIOC 391	Research Project	(3)
GER courses or electives		<u>(9)</u>
	Total	(16)

Senior Year

Fall

² BIOC 312	Proteins and Enzymes	(3)
or		
Approved technical elective		(3)
BIOC 373	Biochemistry SAGES Seminar	(3)
BIOC 391	Research Project	(3)
GER courses or electives		<u>(6)</u>
	Total	(15)

Spring

² BIOC 334	Structural Biology	(3)
or		
Approved technical elective		(3)
BIOC 393	Senior Capstone Experience	(3)
GER courses or electives		<u>(9)</u>
	Total	(15)

Total credit hours required for graduation: 120

¹STAT course is required for B.A. students matriculating fall 2018 or later.

²B.A. students are required to take one of BIOC 312 or BIOC 334. For B.A. students who complete both BIOC 312 and BIOC 334, one course will serve as a required course and the other can serve as a technical elective.