

Biochemistry BA & BS Course Requirements

(for General Bulletins from Fall 2023 and later)

Subject	BA	BS	Credit hours
Biochemistry required*	BIOC 101, BIOC 307, BIOC 308, BIOC 373, BIOC 391, BIOC 393		18
Biochemistry core**	Two of BIOC 312, BIOC 334, or BIOC 350		6
Technical electives**	Two approved courses	Three approved courses	6 (BA) or 9 (BS)
Biology	BIOL 214, BIOL 215 Any two of BIOL 214L, BIOL 215L, BIOL 222L, BIOL 216L		8 or 9
Chemistry	CHEM 105/111, CHEM 106/ENGR 145, CHEM 113 CHEM 223/323, CHEM 224/324, CHEM 233, CHEM 234		18 to 20
Mathematics	MATH 125/121, MATH 126/122/124	MATH 121 MATH 122/124	8
Physics	PHYS 115/121/123, PHYS 116/122/124	PHYS 121/123 PHYS 122/124	8
Statistics	STAT 201/312/313/313R	STAT 312/313/313R	3
Computer science	ENGR 131/CSDS 132		3
General education	As specified in the General Bulletin		~24
Open electives	Student's choice, e.g. for unrelated minor		~18
Total credit hours	120	123	

*Research honors concentration requires: 2 semesters of BIOC 391, BIOC 393H in place of BIOC 393, and BIOC 285 as an additional course.

**Optional concentrations are completed by taking specific core and technical electives courses:

Concentration	Biochemistry core	Technical electives	Credit hours
Cancer Biology	BIOC 350	BIOC 353, BIOC 369	9
Infectious Disease	BIOC 334	BIOC 310, BIOC 311	9
Metabolism	BIOC 312	Any two of BIOC 315, BIOC 344, BIOC 345	9
Computational Health Science	BIOC 334	PQHS 431, PQHS 413/414/416	9