

Undergraduate Major in Biochemistry Sample Curriculum

Health and Medical Sciences Concentration

First Year (31 total credits)

Fall

BC 192	2 cr
LIFE 102	4 cr
CHEM 111,112	5 cr
MATH 155 or 160	<u>4 cr</u>
	15 cr

Spring

LIFE 201B, 203	5 cr
CHEM 113,114	4 cr
CO 150	3 cr
MATH 255 or 161	<u>4 cr</u>
	16 cr

Sophomore Year (31 total credits)

Fall

CHEM 341	3 cr
LIFE 210,212	5 cr
AUCC Cat 3B, 3C, or 3D	3 cr
Elective ¹	<u>3 cr</u>
	14 cr

Spring

CHEM 343	3 cr
CHEM 344	2 cr
PH 121 or 141	5 cr
AUCC Cat 3B, 3C, or 3D	3 cr
BMS 300 or 360	<u>4 cr</u>
	17 cr

Junior Year (31 total credits)

Fall

BC 401	3 cr
PH 122 or 142	5 cr
AUCC Cat 1C	3 cr
STAT 301 or 307 or 315	3 cr
AUCC Cat 2	<u>3 cr</u>
	17 cr

Spring

BC 403	3 cr
BC 406/441/475/484/487/495 ²	2-3 cr
Elective ¹	2-4 cr
BMS 301 ³ OR	5 cr
BMS 305 ³	4 cr
BC 360	<u>1 cr</u>
	14-15 cr

Senior Year (27 total credits)

Fall

BC 411	4 cr
BC 463	3 cr
BC 493	1 cr
BC 404	2 cr
AUCC Cat 3B, 3C, or 3D	<u>3 cr</u>
	13 cr

Spring

BC 465	3 cr
BC 499 A/C	3 cr
BC 467	3 cr
AUCC Cat 3B, 3C, or 3D	3 cr
Elective ¹	<u>2 cr</u>
	14 cr

¹Students are encouraged to use their elective credits on undergraduate research or apply them toward a minor.

²More information can be found on these courses here: <https://www.bmb.colostate.edu/undergraduate-students/>

³BMS 301 should be taken by students pursuing health and medical fields related to human health. BMS 305 should be taken by students pursuing health and medical fields related to veterinary medicine. Students who take BMS 305 will need to complete one additional "elective" credit to obtain the total 120 credits needed to graduate.

Students interested in applying to a professional program in the health and medical field should meet with a Health Professions Advisor: www.hp.colostate.edu

Revised 8/26/2026 by B. Kalet