Undergraduate Major in Biochemistry Sample Curriculum
Data Science Concentration

First Year (31 total credits)

Fall		Spring	
BC 192	2 cr	LIFE 201B, 203	5 cr
LIFE 102	4 cr	CHEM 113,114	4 cr
CHEM 111,112	5 cr	CO 150	3 cr
MATH 155 or 160	4 cr	MATH 255 or 161	4 cr
	15 cr		16 cr

Sophomore Year (29 total credits)

Fall		Spring	
CHEM 341	3 cr	CHEM 343	3 cr
LIFE 210	3 cr	CHEM 344	2 cr
LIFE 212	2 cr	CS 162	2 cr
AUCC Cat 1C	3 cr	DSCI 369	4 cr
CS 150B	3 cr	STAT 158	1 cr
	14 cr	AUCC Cat 3B, 3C, or 3D[1]	3 cr
			15 cr

Junior Year (31-32 total credits)

Fall		Spring	
BC 401	3 cr	PH 121 or 141	5 cr
BC 360	1 cr	BC 403	3 cr
CS 165	4 cr	BC 404	2 cr
STAT 341	3 cr	DSCI 235	2 cr
STAT 315	3 cr	CO 300/301B/302 or JTC 300	3 cr
	14 cr		15 cr

Senior Year (28-29 total credits)

Fall		Spring	
BC 411	4 cr	BC 465	3 cr
BC 463	3 cr	BC 499A/F	3 cr
BC 493	1 cr	AUCC Cat 3B, 3C or 3D[1]	3 cr
AUCC Cat 3B, 3C or 3D[1]	3 cr	DSCI 335	3 cr
BZ 360	4 cr	Free Electives[2]	4 cr
	15 cr		16 cr

[1]Select from the list of courses in categories 3B-3D (six credits [two courses] must come from 3B; one course each from categories 3C and 3D) in the AUCC. Only 3 of the 6 credits required for Arts and Humanities may come from intermediate (L*** 200 and L*** 201) foreign language courses.

[2]Select enough elective credits to bring the program total to a minimum of 120 credits, of which at least 42 must be upper-division (300- to 400-level). Students are encouraged to fulfill their free elective credits with additional Data Science electives, Bioscience electives or PH 122/PH 142 Physics II or apply them to a minor.   Revised 2/7/26 by E. Ross