BS Cellular and Molecular Biology Suggested Course Sequence (2022-2023)

- Students should take the Chemistry Placement test (available in Canvas) prior to New Student Advising.
- A Chemistry Placement score ≥35 is a pre-requisite for BIO 2101 and CHM 1211.
- Students who score <35 on the Chemistry Placement test, or who would benefit from an introduction to Chemistry, should take CHM 1310 in Autumn quarter, then take BIO 2101 and CHM 1211 in Winter quarter.

Students interested in careers in the health sciences should take PPHS 1200, PPHS 1800 and PPHS 3400. See the Pre-Professional Health Sciences program website for more information

This Suggested Course Sequence is a potential plan for how to complete the major within four years. Please consult with a departmental faculty advisor for course advisement

Four-Year Plan (Autumn BIO 2101 start)

YEAR 1					
Autumn	Winter	Spring	Notes		
BIO 1859 (1)	BIO 2102 (5)	BIO 2103 (5)	Take Math Placement Test (in Canvas) if you		
BIO 2101 (5)	CHM 1212 (5)	CHM 1213 (3)*	are at Math Level 0 or A at time of admission;		
CHM 1211 (5)		CHM 2213 (2)*	Math Level B is a pre-requisite for BIO 2102,		
UCOL 1000 (1)			BIO 2103, CHM 1212 and MAT 2360.		
` /			Students who test into Level 0 or A should plan		
Any quarter:	•	to take MAT 0144 and/or MAT 0145 to			
	ation courses (WRI 1000,	achieve Math Level B.			
			BIO 2102 and BIO 2103 can be taken in either		
			order.		
			* CHM 1213/2213 are recommended for most		
			graduate programs.		
		YEAR 2			
Autumn	Winter	Spring	Notes		
CHM 3371 (5)	CHM 3372 (5)	CHM 3373 (5)	MAT 2360 is a pre-requisite for BIO 3325 and		
PHY 1101 / 1121 (5)	PHY 1102 / 1122 (5)	PHY 1103 / 1123 (5)	BIO 4360.		
Any quarter:					
• MAT 2360 (5)		* Take Calculus Placement Test in Canvas			
	(5) or MAT 1234 (5)*	first. MAT 1235 may be required by some			
• 3 credits of research	h: BIO 4978 (1) and 4979	graduate programs.			
			Discourse (140 - 110 - 110 - 112 - 112 - 113)		
			Physics (either 110x series or 112x series) is		
		YEAR 3	recommended for most graduate programs.		
Autumn	Winter	Spring	Notes		
BIO 3325 (5)	CHM 4362 (5)	BIO 3351 (5)	BIO 3325 is offered both Autumn and Winter.		
CHM 4361 (5)	CHWI 4302 (3)	Apply to graduate!	It is a pre-requisite for BIO 4325 (only offered		
Any quarter:		Appry to graduate:	in Winter) and BIO 4352 (only offered in		
• BIO 3899 (1)		Spring).			
` '	ogy selected from: BIO 42	Spring).			
4418 or 4419 in year		* BIO 4415, 4418 and 4419 may not count for			
	ve courses selected from: I	both the Physiology and Electives categories.			
	ve courses selected from: 14418, 4419, 4420, 4435 or	and I my storegy and Dicentes entegoties.			
+330, +300, 4413, 4	7710, 77 12, 77 20, 77 33 01	Check the time schedule, as most courses are			
		offered only in certain quarters.			
YEAR 4					
A 114: 100 to	Winter	Spring	Notes		
Autumn	********		140163		
CHM 3225 (5)	BIO 4325 (5)	BIO 4352 (5)	Hotes		
			Notes		

Four-Year Plan (Winter BIO 2101 start)

YEAR 1					
Autuman	Winter		Notes		
Autumn BIO 1859 (1)	Winter BIO 2101 (5)	Spring BIO 2102 (5)	Notes Take Math Placement Test (in Convec) if you		
` '	` /	* *	Take Math Placement Test (in Canvas) if you		
CHM 1310 (5)* UCOL 1000 (1)	CHM 1211 (5)	CHM 1212 (5)	are at Math Level 0 or A at time of admission;		
UCOL 1000 (1)	PPHS 1200 (1)*		Math Level B is a pre-requisite for BIO 2102, BIO 2103, CHM 1212 and MAT 2360.		
Any quanton:		Students who test into Level 0 or A should plan			
Any quarter: First year general education courses (WPL 1000, WPL 1100, UEDN 1000)			to take MAT 0144 and/or MAT 0145 to		
First-year general education courses (WRI 1000, WRI 1100, UFDN 1000)			achieve Math Level B.		
			delile ve iviatii Ee vei B.		
			BIO 2102 and BIO 2103 can be taken in either		
			order.		
			oraci.		
			* Students may start with CHM 1211 if their		
			Chemistry Placement Test score is ≥35.		
			_		
		YEAR 2			
Autumn	Winter	Spring	Notes		
BIO 2103 (5)	PHY 1102 / 1122 (5)	CHM 1213 (3)*	MAT 2360 is a pre-requisite for BIO 3325 and		
PHY 1101 / 1121 (5)		CHM 2213 (2)*	BIO 4360.		
		PHY 1103 / 1123 (5)			
Any quarter:			Physics (either 110x series or 112x series) is		
• MAT 2360 (5)			recommended for most graduate programs.		
• Either MAT 1221 ((5) or MAT 1234 (5)**				
• 3 credits of research: BIO 4978 (1) and 4979 (2) in years 2 – 4.			* CHM 1213/2213 are recommended for most		
			graduate programs.		
			** Take Calculus Placement Test in Canvas		
			first. MAT 1235 may be required by some		
			graduate programs.		
			graduate programs.		
Autumn	Winter	YEAR 3 Spring	Notes		
CHM 3371 (5)	CHM 3372 (5)	CHM 3373 (5)	BIO 3325 is offered both Autumn and Winter.		
BIO 3325 (5)		Apply to graduate!	It is a pre-requisite for BIO 4325 (only offered		
Any quarter:			in Winter) and BIO 4352 (only offered in		
• BIO 3899 (1)		Spring).			
• 5 credits of Physiol	ogy selected from: BIO 42	256, 4410, 4413, 4415,			
4418 or 4419 in yea		* BIO 4415, 4418 and 4419 may not count for			
• 10 credits of elective courses selected from: BIO 3320, 3350, 3615,			both the Physiology and Electives categories.		
4330, 4360, 4415, 4418, 4419, 4420, 4435 or 4744 in years 3 – 4.			a		
			Check the time schedule, as most courses are		
			offered only in certain quarters.		
YEAR 4					
Autumn	Winter		Notes		
CHM 3225 (5)	BIO 4325 (5)	Spring BIO 4352 (5)	Notes		
CHM 3223 (3) CHM 4361 (5)	CHM 4362 (5)	DIO 4332 (3)			
Any quarter:	CHIVI 4302 (3)		1		
	as for a total of 2 aradital				
BIO 4899 (take twice, for a total of 2 credits)					