BS 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 are at
BIO 2101 (5)	CHM 1212 (5)	CHM 1213 (3)**	Math Level 0 or A at time of admission; Math Level B
	CHW 1212 (3)		
CHM 1211 (5)		CHM 2213 (2)**	is a pre-requisite for BIO 2102, BIO 2103, CHM 1212
UCOL 1000 (1)			and MAT 2360. Students who test into Level 0 or A
•			should plan to take MAT 0144 and/or MAT 0145 to
Any quarter:			achieve Math Level B.
First-year general education courses (WRI 1000, WRI 1100,			
UFDN 1000)			BIO 2102 and BIO 2103 can be taken in either order.
			this is a superior of the supe
			** May take CHM 3225 or BIO 4360 instead of CHM
			1213/2213 – consult with your faculty advisor for the
			best option.
		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 BIO
PHY 1101 / 1121 (5)	PHY 1102 / 1122	PHY 1103 / 1123	4360.
	(5)	(5)	
Any quarter:			* Take Calculus Placement Test in Canvas first. MAT
• MAT 2360 (5)			1235 may be required by some graduate programs.
* /	r Winter) or MAT 122	1 (Spring)*	
			Physics 110x or 112x series is recommended for most
• Begin research (BIO 4978/4979) in years 2 – 4.			graduate programs.
		YEAR 3	
Autumn	Winter	Spring	Notes
BIO 3325 (5)			BIO 3325 is offered both Autumn and Winter. It is a
BIO 3325 (5) Any quarter :		Apply to graduate!	BIO 3325 is offered both Autumn and Winter. It is a
Any quarter:			BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO
Any quarter : • BIO 3899 (1)	y from the following:	Apply to graduate!	BIO 3325 is offered both Autumn and Winter. It is a
Any quarter: BIO 3899 (1) Credits of ecology	y from the following: 1	Apply to graduate! BIO 3302, 3303,	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only).
Any quarter: • BIO 3899 (1) • 5 credits of ecology 3305, 3310, 4810,	4815, 4825, 4835, 484	Apply to graduate! BIO 3302, 3303,	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered
 Any quarter: BIO 3899 (1) 5 credits of ecology 3305, 3310, 4810, 5 credits of taxono 	4815, 4825, 4835, 484 my/development from	Apply to graduate! BIO 3302, 3303,	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only).
 Any quarter: BIO 3899 (1) 5 credits of ecology 3305, 3310, 4810, 5 credits of taxono 3000, 3320, 3432, 	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744.	Apply to graduate! BIO 3302, 3303, 0 the following: BIO	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered
 Any quarter: BIO 3899 (1) 5 credits of ecology 3305, 3310, 4810, 5 credits of taxono 3000, 3320, 3432, 5 credits of Botany 	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3	Apply to graduate! BIO 3302, 3303, 0 the following: BIO	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered
 Any quarter: BIO 3899 (1) 5 credits of ecology 3305, 3310, 4810, 5 credits of taxono 3000, 3320, 3432, 5 credits of Botany years 3-4. May be 	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3 met in other sections	Apply to graduate! BIO 3302, 3303, 40 the following: BIO 453, 4415 or 4744 in	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered
 Any quarter: BIO 3899 (1) 5 credits of ecology 3305, 3310, 4810, 5 credits of taxono 3000, 3320, 3432, 5 credits of Botany years 3-4. May be 	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3	Apply to graduate! BIO 3302, 3303, 0 the following: BIO 453, 4415 or 4744 in atalog for options).	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered
 Any quarter: BIO 3899 (1) 5 credits of ecology 3305, 3310, 4810, 5 credits of taxono 3000, 3320, 3432, 5 credits of Botany years 3-4. May be 3 credits of Field B 	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3 met in other sections Bio in years 3-4 (see ca	Apply to graduate! BIO 3302, 3303, 0 the following: BIO 453, 4415 or 4744 in talog for options). YEAR 4	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered only in certain quarters.
 Any quarter: BIO 3899 (1) 5 credits of ecology 3305, 3310, 4810, 5 credits of taxono 3000, 3320, 3432, 5 credits of Botany years 3-4. May be 	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3 met in other sections Bio in years 3-4 (see ca	Apply to graduate! BIO 3302, 3303, .0 the following: BIO 453, 4415 or 4744 in stalog for options). YEAR 4 Spring	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered
Any quarter: BIO 3899 (1) continuous formula for the state of the st	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3 met in other sections Bio in years 3-4 (see ca	Apply to graduate! BIO 3302, 3303, 0 the following: BIO 453, 4415 or 4744 in talog for options). YEAR 4	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered only in certain quarters.
Any quarter: BIO 3899 (1) 5 credits of ecology 3305, 3310, 4810, 5 credits of taxono 3000, 3320, 3432, 5 credits of Botany years 3-4. May be Autumn Any quarter:	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3 met in other sections Bio in years 3-4 (see ca Winter BIO 4330 (5)	Apply to graduate! BIO 3302, 3303, 40 the following: BIO 453, 4415 or 4744 in stalog for options). YEAR 4 Spring BIO 4352 (5)	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered only in certain quarters.
Any quarter: BIO 3899 (1) 5 credits of ecology 3305, 3310, 4810, 5 credits of taxono 3000, 3320, 3432, 5 credits of Botany years 3-4. May be Autumn Any quarter: BIO 4899 (take two	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3 met in other sections Bio in years 3-4 (see ca Winter BIO 4330 (5) ice, for a total of 2 cre	Apply to graduate! BIO 3302, 3303, 0 the following: BIO 453, 4415 or 4744 in talog for options). YEAR 4 Spring BIO 4352 (5) dits)	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered only in certain quarters.
Any quarter: BIO 3899 (1) continuous formula for the state of the st	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3 met in other sections Bio in years 3-4 (see ca Winter BIO 4330 (5) ice, for a total of 2 cre logy core from the followed.	Apply to graduate! BIO 3302, 3303, 0 the following: BIO 453, 4415 or 4744 in talog for options). YEAR 4 Spring BIO 4352 (5) dits)	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered only in certain quarters.
Any quarter: BIO 3899 (1) 5 credits of ecology 3305, 3310, 4810, 5 credits of taxono 3000, 3320, 3432, 5 credits of Botany years 3-4. May be Autumn Any quarter: BIO 4899 (take two	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3 met in other sections Bio in years 3-4 (see ca Winter BIO 4330 (5) ice, for a total of 2 cre logy core from the followed.	Apply to graduate! BIO 3302, 3303, 0 the following: BIO 453, 4415 or 4744 in talog for options). YEAR 4 Spring BIO 4352 (5) dits)	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered only in certain quarters.
Any quarter: BIO 3899 (1) continuous formula in the state of the sta	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3 met in other sections Bio in years 3-4 (see ca Winter BIO 4330 (5) ice, for a total of 2 cre logy core from the followed.	Apply to graduate! BIO 3302, 3303, 40 the following: BIO 453, 4415 or 4744 in stalog for options). YEAR 4 Spring BIO 4352 (5) dits) lowing: BIO 4256,	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered only in certain quarters.
Any quarter: BIO 3899 (1) continuous formula for the state of the st	4815, 4825, 4835, 484 my/development from 3453, 4435, 4744. v selected from: BIO 3 met in other sections Bio in years 3-4 (see ca Winter BIO 4330 (5) ice, for a total of 2 cre logy core from the foll 4418, 4419. vision BIO courses in	Apply to graduate! BIO 3302, 3303, 40 the following: BIO 453, 4415 or 4744 in stalog for options). YEAR 4 Spring BIO 4352 (5) dits) lowing: BIO 4256,	BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4330 (Winter only) and BIO 4352 (Spring only). Check the time schedule, as most courses are offered only in certain quarters.

Four-Year Plan (Winter BIO 2101 start)

		YEAR 1	
Autumn	Winter	Spring	Notes
BIO 1859 (1)	BIO 2101 (5)	BIO 2102 (5)	Take Math Placement Test (in Canvas) if you
CHM 1310 (5)*	CHM 1211 (5)	CHM 1212 (5)	are at Math Level 0 or A at time of admission;
UCOL 1000 (1)		, ,	Math Level B is a pre-requisite for BIO 2102,
			BIO 2103, CHM 1212 and MAT 2360.
Any quarter:		Students who test into Level 0 or A should plan	
First-year general educa	tion courses (WRI 1000, '	to take MAT 0144 and/or MAT 0145 to	
		achieve Math Level B.	
			DIO 2102 1 DIO 2102 1 (-1 1 1-1
		BIO 2102 and BIO 2103 can be taken in either order.	
		order.	
			* 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.
T	Winter) or MAT 1221 (Sp		* May take CHM 3225 or BIO 4360 instead of
Begin research (BI)	O 4978/4979) in years 2 –	4.	CHM 1213/2213 – consult with your faculty
			advisor for the best option.
			advisor for the best option.
			* Take Calculus Placement Test in Canvas
			first. MAT 1235 may be required by some
			graduate programs.
• •	180	YEAR 3	N. d
Autumn	Winter	Spring	Notes 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 4330 (Winter only) and BIO 4352 (Spring only).
Any quarter: • BIO 3899 (1)		and BIO 4332 (Spring only).	
` '	from the following: BIO	Check the time schedule, as most courses are	
4810, 4815, 4825, 4		offered only in certain quarters.	
	ny/development from the		
3320, 3432, 3453, 4			
	selected from: BIO 3453,		
4. May be met in ot			
3 credits of Field B	io in years 3-4 (see catalog		
		YEAR 4	
Autumn	Winter	Spring	Notes
A	BIO 4330 (5)	BIO 4352 (5)	
Any quarter:	as for a total of 2 anadita)		
	ce, for a total of 2 credits)		
• 5 credits of Physiol 4413, 4415, 4418, 4	ogy core from the following		
	vision BIO courses in year		
in major.	ision bio courses in year		
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