

**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  $\geq 35$  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 2101 (5) CHM 1211 (5) UCOL 1000 (1)	BIO 2102 (5) CHM 1212 (5)	BIO 2103 (5) CHM 1213 (3)** CHM 2213 (2)**	Take Math Placement Test (in Canvas) if you are at Math Level 0 or A at time of admission; Math Level B is a pre-requisite for BIO 2102, BIO 2103, CHM 1212 and MAT 2360. Students who test into Level 0 or A should plan to take MAT 0144 and/or MAT 0145 to achieve Math Level B.  BIO 2102 and BIO 2103 can be taken in either order.  ** May take CHM 3225 or BIO 4360 instead of CHM 1213/2213 – consult with your faculty advisor for the best option.
<b>Any quarter:</b> First-year general education courses (WRI 1000, WRI 1100, UFDN 1000)			
YEAR 2			
Autumn	Winter	Spring	Notes
CHM 3371 (5) PHY 1101 / 1121 (5)	CHM 3372 (5) PHY 1102 / 1122 (5)	CHM 3373 (5) PHY 1103 / 1123 (5)	MAT 2360 is a pre-requisite for BIO 3325 and BIO 4360.  * Take Calculus Placement Test in Canvas first. MAT 1235 may be required by some graduate programs.  Physics 110x or 112x series is recommended for most graduate programs.
<b>Any quarter:</b> <ul style="list-style-type: none"> <li>• MAT 2360 (5)</li> <li>• MAT 1234 (Fall or Winter) or MAT 1221 (Spring)*</li> <li>• Begin research (BIO 4978/4979) in years 2 – 4.</li> </ul>			
YEAR 3			
Autumn	Winter	Spring	Notes
BIO 3325 (5)		<i>Apply to graduate!</i>	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.
<b>Any quarter:</b> <ul style="list-style-type: none"> <li>• BIO 3899 (1)</li> <li>• 5 credits of ecology from the following: BIO 3302, 3303, 3305, 3310, 4810, 4815, 4825, 4835, 4840</li> <li>• 5 credits of taxonomy/development from the following: BIO 3000, 3320, 3432, 3453, 4435, 4744.</li> <li>• 5 credits of Botany selected from: BIO 3453, 4415 or 4744 in years 3-4. May be met in other sections</li> <li>• 3 credits of Field Bio in years 3-4 (see catalog for options).</li> </ul>			
YEAR 4			
Autumn	Winter	Spring	Notes
	BIO 4330 (5)	BIO 4352 (5)	
<b>Any quarter:</b> <ul style="list-style-type: none"> <li>• BIO 4899 (take twice, for a total of 2 credits)</li> <li>• 5 credits of Physiology core from the following: BIO 4256, 4410, 4413, 4415, 4418, 4419.</li> <li>• 12 credits upper division BIO courses in years 3-4 not used elsewhere in major.</li> </ul>			

**Four-Year Plan (Winter BIO 2101 start)**

YEAR 1			
Autumn	Winter	Spring	Notes
BIO 1859 (1) CHM 1310 (5)* UCOL 1000 (1)	BIO 2101 (5) CHM 1211 (5)	BIO 2102 (5) CHM 1212 (5)	Take Math Placement Test (in Canvas) if you are at Math Level 0 or A at time of admission; Math Level B is a pre-requisite for BIO 2102, BIO 2103, CHM 1212 and MAT 2360.  Students who test into Level 0 or A should plan to take MAT 0144 and/or MAT 0145 to achieve Math Level B.  BIO 2102 and BIO 2103 can be taken in either order.  * Students may start with CHM 1211 if their Chemistry Placement Test score is $\geq 35$ .
<b>Any quarter:</b> First-year general education courses (WRI 1000, WRI 1100, UFDN 1000)			
YEAR 2			
Autumn	Winter	Spring	Notes
BIO 2103 (5) PHY 1101 / 1121 (5)	PHY 1102 / 1122 (5)	CHM 1213 (3)* CHM 2213 (2)* PHY 1103 / 1123 (5)	MAT 2360 is a pre-requisite for BIO 3325 and BIO 4360.  Physics (either 110x series or 112x series) is recommended for most graduate programs.  * May take CHM 3225 or BIO 4360 instead of CHM 1213/2213 – consult with your faculty advisor for the best option.  * Take Calculus Placement Test in Canvas first. MAT 1235 may be required by some graduate programs.
<b>Any quarter:</b> <ul style="list-style-type: none"> <li>• MAT 2360 (5)</li> <li>• MAT 1234 (Fall or Winter) or MAT 1221 (Spring)**</li> <li>• Begin research (BIO 4978/4979) in years 2 – 4.</li> </ul>			
YEAR 3			
Autumn	Winter	Spring	Notes
CHM 3371 (5) BIO 3325 (5)	CHM 3372 (5)	CHM 3373 (5) <i>Apply to graduate!</i>	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.
<b>Any quarter:</b> <ul style="list-style-type: none"> <li>• BIO 3899 (1)</li> <li>• 5 credits of ecology from the following: BIO 3302, 3303, 3305, 3310, 4810, 4815, 4825, 4835, 4840</li> <li>• 5 credits of taxonomy/development from the following: BIO 3000, 3320, 3432, 3453, 4435, 4744.</li> <li>• 5 credits of Botany selected from: BIO 3453, 4415 or 4744 in years 3-4. May be met in other sections</li> <li>• 3 credits of Field Bio in years 3-4 (see catalog for options).</li> </ul>			
YEAR 4			
Autumn	Winter	Spring	Notes
	BIO 4330 (5)	BIO 4352 (5)	
<b>Any quarter:</b> <ul style="list-style-type: none"> <li>• BIO 4899 (take twice, for a total of 2 credits)</li> <li>• 5 credits of Physiology core from the following: BIO 4256, 4410, 4413, 4415, 4418, 4419.</li> <li>• 12 credits upper division BIO courses in years 3-4 not used elsewhere in major.</li> </ul>			