

BS –Cellular and Molecular Biology Major Suggested Course Sequence
based on 2021-2022 catalog requirements

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.

Year	Autumn Quarter	Winter Quarter	Spring Quarter	Any Quarter	Comments
1	BIO 1859 (1)*			MAT 1221 (5) or MAT 1234 (5)****	* Math Placement Test should be taken 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 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. Take calculus placement test if needed. ** BIO 2102 and 2103 can be taken in either order ***CHM 1213/2213 is recommended for most post-graduate programs. ****MAT 1235 is recommended for many post-graduate programs.
	BIO 2101 (5) CHM 1211 (5)	BIO 2102 (5) CHM 1212 (5)	BIO 2103 (5) CHM 1213 (3)*** CHM 2213 (2)***		
	CHM 1310 (5)	BIO 2101 (5) CHM 1211 (5)	BIO 2102 (5)** CHM 1212 (5)		
	CHM 1211 (5)	BIO 2101 (5) CHM 1212 (5)	BIO 2102 (5)** CHM 1213 (3)*** CHM 2213 (2)***		
2	CHM 3371 (5) PHY 1101 or 1121 (5)*	CHM 3372 (5) PHY 1102 or 1122 (5)*	CHM 3373 (5) PHY 1103 or 1123 (5)*	•MAT 2360 (5)** •3 credits of research: BIO 4978 (1) and 4979 (2) in years 2-4.	* Physics is recommended for most post-graduate programs **MAT 2360 is a prerequisite for BIO 3325 ***CHM 1213/2213 is recommended for most post-graduate programs.
	BIO 2103 (5)		CHM 1213 (3)*** CHM 2213 (2)***		
	BIO 2103 (5)				
3	BIO 3325 (5) * CHM 4361 (5)	CHM 4362 (5)	BIO 3351 (5)	•BIO 3899 (1) •5 credits of Physiology selected from: BIO 4256, 4410, 4413, 4415, 4418 or 4419 in years 3-4**. •10 credits of elective courses selected from: BIO 3320, 3350, 3615, 4330, 4360, 4415, 4418, 4419, 4420, 4435 or 4744 in years 3-4.	* BIO 3325 is offered both Autumn and Winter. It is a pre-requisite for BIO 4352, which is offered only in Spring. ** BIO 4415, 4418 and 4419 may not count for both the Physiology and Electives categories. Check the time schedule, as most upper division courses are offered only in certain quarters, and some courses are offered in alternate years.
4	CHM 3225 (5)	BIO 4325 (5)	BIO 4352 (5)	•BIO 4899 (must take twice, 2 cr total)	

All courses are sequential, unless otherwise noted.

Autumn track BIO2101 (BPL3 and Chm Placement score >35); Winter track BIO2101 (BPL2 and/or Chm Placement score <35); Winter track BIO2101 (BPL2 and Chm Placement score >35)