Sample Biology Roadmap: Biomedical Science

The following is one potential roadmap to prepare for a career in biomedical science. It is only a suggestion; students have successfully prepared for biomedical science-related fields using a variety of course schedules. Some choose to reduce their course load each semester by taking summer courses. **Students should consult their advisors and programs of interest to plan their academic schedule**.

Students interested in the Accelerated BS – MS (4+1) program at Winthrop should contact the graduate director, Dr. Kristi Westover, and apply before their senior year. Students may receive credit for 9 hours of 500-level courses towards the MS degree if certain requirements are met. For more information, please visit (<u>https://www.winthrop.edu/graduateschool/master-of-science-in-biology.aspx</u>).

Freshman Year

Fall (17 credits)	Spring (15 credits)
ACAD 101 (1)	HMXP 102 (3)
WRIT 101 (3)	BIOL 221 (3) and BIOL 271 (2) ^a
BIOL 202 (1)	CHEM 202 (4) ^b and 204 (2)
BIOL 220 (3) and BIOL 270 (2) ^a	PESH (1)
CHEM 201 (4) or 211 (4)	
MATH 150 or 151 (3)	

^aSEA-PHAGES labs 270 and 271 are 2 credits each and are strongly encouraged since they are research labs. If you are accepted into this program students should take 220 in their first semester.

^bCHEM 202 is only required if CHEM 201 is taken; if CHEM 211 is taken, CHEM 202 is not required.

Sophomore Year

Fall (17 credits)	Spring (17-18 credits)
CRTW 201 (3)	BIOL 316 (3) or BIOL 317 (4)*
BIOL 300 (4)	Gen Ed Elective (3)
MATH 241: Quantitative requirement (3)	Gen Ed Elective (3)
Gen Ed elective (3)	Foreign Language 101 (4)
BIOL 307/308/321: Area D (4)	BIOL 315 or 320: Area B (4)*

Junior Year

Fall (18-19 credits)	Spring (14 credits)
BIOL 310 or 311: Area C (4)*	BIOL 490 (0.5)
BIOL Elective Area A (3-4)	CHEM 302 (3) and 304 (1)
BIOL 390 (0.5)	BIOL 522 (or other): Area B and 500 level requirement
CHEM 301 (4)	(4)
Foreign Language 102 (4)	Gen Ed elective (3)
MATH 105 or 201 (3)	Gen Ed elective (3)
	BIOL 450H or 471 (3)

*At least one of these options must be a lab course.

Senior Year

Fall (16 credits)	Spring (13-16 credits)
BIOL 480 (3)	Gen Elective (3)
Gen Ed Elective (3)	CHEM 323(3) or 520 (3) or 523/525 (5)
Gen Ed elective (3)	BIOL Elective Area A, B, C or D (3-4)
Gen Ed Elective (3)	PHYS 202 or 212 with lab (4)
PHYS 201 or 211 with lab (4)	