

## Sample Biology Roadmap: Pre-Medical (M.D.)

The following is one potential roadmap to prepare for medical school. It is only a suggestion; students have successfully prepared for medical school using a variety of course schedules. Some choose to reduce their course load each semester by taking summer courses, and some use a gap/growth year after graduation to study for the MCAT and gain clinical work experience. In this roadmap, Freshman-Junior years are designed to help prepare students to take the MCAT early in the summer after their junior year. Carrying larger course loads in years 1-3 is helpful for MCAT preparation and also reduces the number of credit hours needed in the senior year—during the application/interview process. **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. Laura Glasscock, 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 (<https://www.winthrop.edu/graduateschool/master-of-science-in-biology.aspx>).

### Freshman Year

Fall (16 credits)	Spring (16 credits)
ACAD 101 (1) WRIT 101 (3) BIOL 202 (1) BIOL 220 or 221 (3) and BIOL 222* or 223 (1) CHEM 201 (4) or 211 (4) Gen Ed Elective (3)	HMXP 102 (3) BIOL 220 or 221 (3) and BIOL 222 or 223* (1) MATH (3) CHEM 202** (3) and 204 (2) PSYC 101 (3) PESH (1)

\*BIOL 270 SEA-PHAGES Lab (2) can replace BIOL 222 in Fall semesters. BIOL 271 SEA-PHAGES Lab (2) can replace BIOL 223 in Spring Semesters

\*\*If CHEM211 was taken in the first semester, the student only needs to take 204, not 202, in the second semester.

### Sophomore Year

Fall (17-18 credits)	Spring (17-18 credits)
CRTW 201 (3) BIOL 316 (3) or 317 (4) CHEM 301 (4) Foreign Language 101 (4) SOCL 201 (3)	BIOL 300 (4) MATH (3) CHEM 302 (3) and CHEM 304 (1) Gen Ed Elective (3) Foreign Language 102 (4)

### Junior Year

Fall (13-16 credits)	Spring (14-19 credits)
BIOL 315 (4) or 320 (3) CHEM 523 (3), 525 (2)* PHYS 201/201L (4) Gen Ed Elective (3) Gen Ed Elective (optional) (3)	BIOL 308 (4) BIOL 310 (4) or 311 (3) PHYS 202/202L (4) CHEM 520 (3) or 524 (3)* Additional BIOL or Gen Ed Elective (optional) (3-4)

\*Either the CHEM 523/524/525 series or CHEM 520 may be taken to fulfill the Biochemistry requirement.

### Senior Year

Fall (11-18 credits)	Spring (7-18 credits)
BIOL 307 (4) BIOL 321 (4) BIOL 390 (0.5) BIOL Area A (3-4) Gen Ed Elective(s) as needed BIOL/Other Elective(s) as desired	BIOL 480 (3) BIOL 490 (0.5) BIOL 522 (4) Gen Ed Elective(s) as needed BIOL/Other Elective(s) as desired