

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. 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 (<https://www.winthrop.edu/graduateschool/master-of-science-in-biology.aspx>).

Freshman Year

| Fall (15 credits) | Spring (17 credits) |
|---|--|
| ACAD 101 (1) WRIT 101 (3) BIOL 202 (1) BIOL 220 or 221 (3) and BIOL 222* or 223 (1) CHEM 104 (3) PESH (1) Gen Ed Elective (3) | HMXP 102 (3) BIOL 220 or 221 (3) and BIOL 222 or 223* (1) MATH (3) CHEM 105 (4) PSYC 101 (3) |

*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

Sophomore Year

| Fall (16 credits) | Spring (17-18 credits) |
|--|---|
| CRTW 201 (3) BIOL 300 (4) CHEM 108 (2) Foreign Language 101 (4) SOCL 201 (3) | BIOL 316 (3) or BIOL 317 (4) MATH (3) CHEM 301 (4) Gen Ed Elective (3) Foreign Language 102 (4) |

Junior Year

| Fall (14-18 credits) | Spring (14-19 credits) |
|---|---|
| BIOL 315 (4), 320 (3), or 322X (3) CHEM 302 (3) and CHEM 304 (1) 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) Additional BIOL or Gen Ed Elective (optional) (3-4) |

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 |