

MB&B Major Course Checklist

Introductory Courses

- Principles of Biology I: MB&B 181
- Principles of Biology I Lab: MB&B 191
- Principles of Biology II: MB&B 182
- Principles of Biology II Lab: MB&B 192
- General Chemistry I: CHEM 141
- General Chemistry II: CHEM 142
- Introductory Chemistry Lab I: CHEM 141L*
- Introductory Chemistry Lab II: CHEM142L*
- Calculus or Statistics

Intermediate Courses

- Molecular Biology: MB&B 208
- Research Frontiers in Molecular Biology and Biochemistry: MB&B 209 (*optional*)
- Organic Chemistry I: CHEM 251
- Organic Chemistry II: CHEM 252

Advanced Courses

- Biochemistry: MB&B 383
- Physical Chemistry for the Life Sciences: MB&B 381
- Advanced Lab: MB&B 394 OR MB&B 395
- Elective: 200 or 300 level elective in MB&B
- Advanced Elective: 300 level elective in MB&B

Substitutions

MB&B 381 may be replaced by two semesters of Introductory Physics (PHYS 111 and PHYS 112, or PHYS 113 and PHYS 116) or by Physical Chemistry (CHEM 337 and CHEM 338). Students who take two semesters of physics or physical chemistry may count MB&B 381 as one of their required 300-level electives.

Two consecutive semesters of research (in the same laboratory) for credit (MB&B 423 and MB&B 424, Advanced Research Seminar) with an MB&B faculty member (or a pre-approved faculty member in another department conducting research in molecular biology/biochemistry/biophysics) can be substituted for the 200-level elective, provided that it is taken for 1.0 credit each semester and a grade of B or higher is achieved.

*Students who completed CHEM152: Introductory Chemistry Laboratory before the Fall of 2026 may use CHEM152 in the place of these two courses.