# Major Requirements

<table>
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<tr>
<th>Required courses from Biology</th>
<th>Required courses from related fields</th>
<th>Additional courses recommended for specific plans after graduation</th>
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<td>- BIOL 175–175L Introduction to Biology I with Lab (4) &lt;br&gt;- BIOL 176–176L Introduction to Biology II with Lab (4) &lt;br&gt;- BIOL 270–270L Intermediate Cell and Molecular Biology with Lab (4) &lt;br&gt;- BIOL 280 Biostatistics (3) &lt;br&gt;- BIOL 281 General Ecology (3) &lt;br&gt;- BIOL 357 Evolution (3) &lt;br&gt;- BIOL 375–375L Biology of Microorganisms with Lab (4) &lt;br&gt;- BIOL 410–410L Biochemistry with Lab (5) &lt;br&gt;- BIOL 415 Cell Biology (3) &lt;br&gt;- BIOL 466 Genetics (3) &lt;br&gt;- BIOL 495A–495B Seminar (2 semesters) (2) &lt;br&gt;- and at least one additional advanced laboratory course, 415L or 466L (2)</td>
<td>- CHEM 124–124L General Chemistry I with Lab (4) &lt;br&gt;- CHEM 125–125L General Chemistry II with Lab (4) &lt;br&gt;- CHEM 241–241L and CHEM 242–242L Organic Chemistry I-II with Lab (8) &lt;br&gt;- PHYS 106–170L, 107–171L College Physics I-II with Lab (8) or PHYS 170–170L, 171–171L General Physics I-II with Lab (10) &lt;br&gt;- MATH 115 Applied Calculus (3) or MATH 205 Calculus I (4)</td>
<td>- Graduate studies in biology: At least two semesters of Directed Studies (BIOL 199, 299, 399, or 499). &lt;br&gt;- Application to medical, pharmacy, dental, veterinary school or other health-related fields: At least one semester of Directed Studies (BIOL 199, 299, 399, or 499) and participation in volunteer and shadowing experiences in the local medical, pharmacy, dental, or veterinary community as appropriate. As prerequisite courses for professional schools may vary, students should seek advising early in their academic careers to develop an academic plan. &lt;br&gt;- Careers that may include teaching: one or more semesters of Teaching Assistance and Tutoring in Biology (BIOL 496). &lt;br&gt;- Careers in environmental biology: a course in geographic information systems (GEOG 480 or GEOL 445).</td>
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## Notes

1. BIOL 101 and BIOL 101L are non-major courses and do not count toward the major or minor in Biology.
2. Students should begin chemistry courses their freshmen year if they plan to complete their academic program in four years. Chemistry courses are often prerequisites for required biology classes.
3. Students must earn a minimum grade of “C-” in all required and prerequisite courses.
4. The upper division credits needed for graduation for all degrees in Biology are met in the process of completing these degrees.
5. To earn a Bachelor of Arts or Bachelor of Science degree in Biology, students must fulfill the requirements for the major and meet all of the University’s other baccalaureate degree requirements. (Please see the Baccalaureate Degree Requirements in this catalog.)
6. Students should always check course prerequisites and the frequency with which courses are offered.
7. To ensure progress toward degree completion, students are strongly encouraged to meet with an advisor.
each semester before registering.

8. Students completing the B.S. in Cell and Molecular Biology Track concurrently fulfill the requirements for a minor in Chemistry. (Students may wish to file for a minor in Chemistry.)