# MAJOR SEQUENCE AND DEGREE REQUIREMENTS

**Major:** BS BIOLOGY  
**Option:** PLANT SCIENCES  
**Total Requirements:** 76 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>BIOLOGY CORE (25-26 credits)</th>
<th>RELATED CORE (24 credits)</th>
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<tbody>
<tr>
<td>BIOL 101</td>
<td>Foundations of Biology</td>
<td>BIOL 111 Introductory Chemistry I</td>
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<tr>
<td>BIOL 211</td>
<td>Concepts of Zoology</td>
<td>BIOL 112 Introductory Chemistry II</td>
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<tr>
<td>BIOL 221</td>
<td>Concepts of Botany</td>
<td>CHEM 235 (or 231 plus 232) Organic Chem.</td>
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<tr>
<td>BIOL 343</td>
<td>Principles of Ecology &amp; Evolution</td>
<td>CHEM 231 (or 231 plus 232) I</td>
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<tr>
<td>BIOL 362</td>
<td>Cell &amp; Developmental Biology</td>
<td>BIOL 321 (or PHYS 231) I</td>
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<tr>
<td>BIOL 364</td>
<td>Genetics &amp; Molecular Biology</td>
<td>PHYS 312 (or PHYS 232) II</td>
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<tr>
<td>BIOL 472</td>
<td>Seminar</td>
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<tr>
<td><strong>Total:</strong></td>
<td>76 credits</td>
<td>24 credits</td>
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### PRACTICAL EXPERIENCE (1-3 credits)

Choose 1-3 credits from the following in Botany, Horticulture, Plant Biotech/Molecular, or Plant Ecology/Environmental

- BIOL 300 Co-op/Internship
- BIOL 498 Independent Study
- BIOL 489 Honors Independent Study
- BIOL 499 Honors Thesis

### IN ADDITION TO THE ABOVE, COMPLETE ONE OF THE FOLLOWING COURSE SEQUENCES TO REACH 76 CREDITS

#### BOTANY

- **ADVANCED PLANT SCIENCE (9 credits)**
  - Choose three courses from:
    - BIOL 325 Plant Systematics
    - BIOL 327 Horticultural Science
    - BIOL 329 Plant-Insect Interactions
    - BIOL 424 Mycology
  - BIOL ELECTIVES (7-10 credits)

#### HORTICULTURAL SCIENCE

- **ADVANCED PLANT SCIENCE (9 credits)**
  - Take this course:
    - BIOL 327 Horticultural Science
  - Choose two from:
    - BIOL 329 Plant-Insect Interactions
    - BIOL 424 Mycology
    - BIOL 375 (or AENG 140, BUAD 231, CSCI 161, GEOG 295, MATH 235, or PSYC 211)

#### PLANT BIOTECH & MOLECULAR

- **ADVANCED MOLECULAR BIOLOGY (4 credits)**
  - BIOL 462 Molecular Biology
  - BIOL ELECTIVES (0-3 credits)

#### PLANT ECOLOGY & THE ENVIRONMENT

- **ADVANCED PLANT SCIENCE (9 credits)**
  - Choose three courses from:
    - BIOL 325 Plant Systematics
    - BIOL 327 Horticultural Science
    - BIOL 329 Plant-Insect Interactions
    - BIOL 424 Mycology
  - BIOL ELECTIVES (0-3 credits)

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1. Completion of this Related Core will also satisfy your three G2 and your one Mathematics Foundations for Lifelong Learning Gen Ed requirements.
2. Any courses listed in parentheses are pre-approved course substitutions for the preceding required course. However, any differences in credit number do not affect the minimum number of BIOL elective credits.
3. Other advanced plant-related credits may be chosen in consultation with one’s academic advisor.
4. These are BIOL major electives in the true sense: any course approved for BIOL majors will count here, so long as it had not been used to fill requirements elsewhere in the Major. For example, if Mycology (BIOL 424) or Biometry (BIOL 375) will not be used to satisfy any of the Advanced Plant Science or Computational credits, respectively, then they or some other such course approved for BIOL majors could count here.
5. Students may obtain a CHEM minor with CHEM 326 and then also CHEM 265. BIOL 324 could then be taken as Advanced Plant Science if desired.
6. Pre-requisites are ECON 101 & 102, which will also count for two of your three General Education G3 courses.
7. Pre-requisite is GEOG 281, which will also count for one of three General Education G3 courses.
8. Students may obtain a Certificate in Marketing by taking BUAD 231, MKTG 332, MKTG 335 and 2 additional MKTG courses.
9. Students may obtain a CHEM minor with CHEM 326 or CHEM 375 and then also CHEM 265. BIOL 324 could then be taken as Advanced Plant Science if desired.