This roadmap is a **suggested** semester-by-semester planning guide for this major. It is a model four-year plan, not a guaranteed sequence or contract. Course availability may vary from semester to semester. Roadmaps are not meant to cover every possibility. They are intended to provide guidance in planning your academic path. **Roadmaps should be reviewed in consultation with your advisor.**

### KEY

<table>
<thead>
<tr>
<th>Course Subject and Number:</th>
<th>Lists the course subject and number (ex. MATH 111; ARTH 101).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit Hrs:</td>
<td>Lists how many credit hours the course is worth. Courses listed with a range of credit hours depend on course selection.</td>
</tr>
<tr>
<td>Min. Grade:</td>
<td>Lists if the major has a minimum grade requirement for this course.</td>
</tr>
<tr>
<td>Critical:</td>
<td>TIME = Timing. This course must be completed in the semester listed to ensure a timely graduation.</td>
</tr>
<tr>
<td>GenEd</td>
<td>Indicates whether or not this major course can also fulfill a general education requirement.</td>
</tr>
<tr>
<td></td>
<td>WRIT: GenEd First Year Writing</td>
</tr>
<tr>
<td></td>
<td>HUMS: GenEd Humanities</td>
</tr>
<tr>
<td></td>
<td>FLANG: GenEd Foreign Language</td>
</tr>
<tr>
<td></td>
<td>MATH: GenEd Math</td>
</tr>
<tr>
<td></td>
<td>HIST: GenEd History</td>
</tr>
<tr>
<td></td>
<td>NATSCI: GenEd Natural Science</td>
</tr>
<tr>
<td>Course Notes:</td>
<td>Lists important information about the course or the timing of the course.</td>
</tr>
</tbody>
</table>

### General Education Requirement

- **First-Year Writing:** Complete English (ENGL) 110, Introduction to Academic Writing, or one of the approved course credit combinations satisfying the first-year writing general education requirement.
- **Math/Logic:** Completion of MATH 120 or HONS 115 or transfer credit for any one of MATH 220, MATH 221, MATH 323 (any of which requires the comprehension of the content of MATH 120/HONS 115); or 6 credit hours from the remaining list of approved courses satisfying the math/logic general education requirement.
- **Foreign Language:** Complete the 202-level or its equivalent or demonstrate proficiency at that level of an approved course satisfying the foreign language general education requirement.
- **Natural Science:** Complete 8 credit hours of an introductory or higher sequence (of which 2 credit hours must be earned in the accompanying laboratories) from the list of approved course sequences satisfying the natural science general education requirement.
- **History:** Complete one course in pre-modern history and one course in modern history from the list of approved courses satisfying the history general education requirement (6 credit hours). The two courses do not have to be taken from the same department or in sequence.
- **Social Sciences:** Complete 6 credit hours from the list of approved courses satisfying the social science general education requirement.
- **Humanities:** Complete 12 credit hours from the list of approved courses satisfying the humanities general education requirement with no more than 6 credit hours with the same acronym.
- **General Education Resources:** Approved course listings for each requirement can be found in the Undergraduate Catalog (http://catalog.cofc.edu/).

### Degree Requirements

<table>
<thead>
<tr>
<th>Minimum GPA</th>
<th>Minimum Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.00</td>
<td>122 credit hours</td>
</tr>
<tr>
<td></td>
<td>Additional hours are required for earning more than one degree. Consult your academic catalog</td>
</tr>
</tbody>
</table>
For additional information on course descriptions, pre-requisites and degree requirements for this major, please consult your [Undergraduate Catalog](#).

### First Year

<table>
<thead>
<tr>
<th>Semester One</th>
<th>Course Subject and Number</th>
<th>Credit Hrs.</th>
<th>Min. Grade</th>
<th>Critical</th>
<th>GenEd</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111</td>
<td>3</td>
<td>NATSCI</td>
<td></td>
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</tr>
<tr>
<td>CHEM 111L</td>
<td>1</td>
<td>NATSCI</td>
<td></td>
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</tr>
<tr>
<td>MATH XXX</td>
<td>3-4</td>
<td>MATH</td>
<td>Either MATH 120, MATH 250 or placement as needed</td>
<td></td>
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</tr>
</tbody>
</table>

**General Education Requirement**

<table>
<thead>
<tr>
<th>Course Subject and Number</th>
<th>Credit Hrs.</th>
<th>Min. Grade</th>
<th>Critical</th>
<th>GenEd</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH XXX</td>
<td>3-4</td>
<td>MATH</td>
<td>Either MATH 120, MATH 250 or placement as needed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**First Year Notes**

Note 1: The General Education First-Year Writing requirement should be completed within the first or second semester.

Note 2: First-Year Experience Requirement: All entering students with less than one year of college experience are required to complete a [First-Year Experience](#) (First-Year Seminar (FYSM), a Learning Community (LC), or an Honors College First-Year Experience course) within their first three consecutive academic terms.

Note 3: BIOL 111/111L and BIOL 112/112L are offered both Fall and Spring semesters. If you are unable to enroll in BIOL 111/111L in Fall semester, you can enroll in this course in Spring semester, and subsequently take BIOL 112 either in Summer or Fall semester.
### Second Year

#### Semester Three

<table>
<thead>
<tr>
<th>Course Subject and Number</th>
<th>Credit Hrs.</th>
<th>Min. Grade</th>
<th>Critical</th>
<th>GenEd</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 231</td>
<td>3</td>
<td></td>
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<td>NATSCI</td>
<td></td>
</tr>
<tr>
<td>CHEM 231L</td>
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<td>NATSCI</td>
<td></td>
</tr>
<tr>
<td>BIOL 112</td>
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<td></td>
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<td>NATSCI</td>
<td></td>
</tr>
<tr>
<td>BIOL 112L</td>
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<td></td>
<td></td>
<td>NATSCI</td>
<td></td>
</tr>
<tr>
<td>MATH 120</td>
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<td></td>
<td></td>
<td></td>
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<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td>Optional</td>
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#### Semester Four

<table>
<thead>
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<th>Course Subject and Number</th>
<th>Credit Hrs.</th>
<th>Min. Grade</th>
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<th>GenEd</th>
<th>Course Notes</th>
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</thead>
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<tr>
<td>CHEM 232</td>
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<td>NATSCI</td>
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<td>CHEM 232L</td>
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<td>NATSCI</td>
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</tr>
<tr>
<td>BIOL 211</td>
<td>4</td>
<td></td>
<td></td>
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<tr>
<td>BIOL 305</td>
<td>3</td>
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<tr>
<td>BIOL 305L</td>
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<td></td>
<td></td>
<td>Biol 305L may also be taken later</td>
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<tr>
<td>MATH 250</td>
<td>3</td>
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<td>TIME</td>
<td></td>
<td>Math 250 is a co- or prerequisite for all 300-level and higher BIOL courses</td>
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<tr>
<td>General Education Requirement</td>
<td>3-4</td>
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<td></td>
<td></td>
<td>Optional</td>
</tr>
</tbody>
</table>

#### Second Year Notes

Note 1: If you took BIOL 112/112L in the summer, you could take BIOL 211/211D the next Fall (Semester Three).

Note 2: MATH 250 should be completed by the end of the second year to avoid problems with registering for 300+ BIOL courses in the third year.

Note 3: Several 300+ BIOL courses require a year of CHEM coursework as a prerequisite.

Note 4: BIOL 305 Laboratory is also required for the Molecular Biology Concentration, but may be taken after the BIOL 305 lecture.

Note 5: If you are considering independent studies/research in your Junior or Senior years, you should have conversations with potential faculty mentors this year.
### Third Year

#### Semester Five

<table>
<thead>
<tr>
<th>Course Subject and Number</th>
<th>Credit Hrs.</th>
<th>Min. Grade</th>
<th>Critical</th>
<th>GenEd</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 312</td>
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<td></td>
<td>Molec Conc students should <strong>not</strong> take Biol 312 Laboratory (take Biol 412 instead)</td>
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<tr>
<td>CHEM 351</td>
<td>3</td>
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<tr>
<td>PHYS 101 or 111 + Laboratories</td>
<td>4</td>
<td></td>
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<td>NATSCI</td>
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<tr>
<td>General Education Requirement</td>
<td>3-4</td>
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<tr>
<td>General Elective</td>
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#### Semester Six

<table>
<thead>
<tr>
<th>Course Subject and Number</th>
<th>Credit Hrs.</th>
<th>Min. Grade</th>
<th>Critical</th>
<th>GenEd</th>
<th>Course Notes</th>
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</thead>
<tbody>
<tr>
<td>BIOL 313</td>
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</tr>
<tr>
<td>BIOL 313L</td>
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<td></td>
<td></td>
<td></td>
<td>BIOL 313L may also be taken later</td>
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<tr>
<td>CHEM 352</td>
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<td>CHEM 354L</td>
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<tr>
<td>PHYS 102 or 112 + Laboratories</td>
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<td></td>
<td></td>
<td>NATSCI</td>
<td></td>
</tr>
<tr>
<td>General Education Requirement or General Elective</td>
<td>3-4</td>
<td></td>
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</tr>
<tr>
<td>General Elective</td>
<td>3-4</td>
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</tr>
</tbody>
</table>

#### Third Year Notes

Note 1: Students must take at least 4 BIOL laboratory courses at the 300+ level for the BS degree/Molec concentration, and 18 credit hrs of 300+ BIOL coursework beyond BIOL 305/L.

Note 2: BIOL 313 Laboratory is also required for the Molecular Biology Concentration, but may be taken after the BIOL 313 lecture.
### Fourth Year

#### Semester Seven

<table>
<thead>
<tr>
<th>Course Subject and Number</th>
<th>Credit Hrs.</th>
<th>Min. Grade</th>
<th>Critical</th>
<th>GenEd</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 300+ Elective</td>
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<tr>
<td>BIOL 412</td>
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<td>BIOL 412 counts as a Biol 300+ Laboratory course</td>
</tr>
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<td>General Education Requirement or General Elective</td>
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<td></td>
</tr>
<tr>
<td>General Education Requirement or General Elective</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>3-4</td>
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<td></td>
<td></td>
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</table>

#### Semester Eight

<table>
<thead>
<tr>
<th>Course Subject and Number</th>
<th>Credit Hrs.</th>
<th>Min. Grade</th>
<th>Critical</th>
<th>GenEd</th>
<th>Course Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 300+ Elective</td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirement or General Elective</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>General Education Requirement or General Elective</td>
<td>3-4</td>
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<tr>
<td>General Elective</td>
<td>3-4</td>
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<tr>
<td>General Elective</td>
<td>3-4</td>
<td></td>
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</tbody>
</table>

#### Fourth Year Notes

Note 1: Don’t forget to apply for graduation in MyCharleston!