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>
</tbody>
</table>

#### General Education Requirement

<table>
<thead>
<tr>
<th>English: ENGL 110 (4 credit hours) is required unless credit is awarded for AP, IB and/or Transfer English credit. A degree candidate must enroll in ENGL 110 in the first year and each subsequent semester until the English requirement has been fulfilled.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math/Logic: Complete 6 credit hours of approved courses in mathematics or logic, in any combination.</td>
</tr>
<tr>
<td>Foreign Language: Satisfactory completion of the 202-level or its equivalent or demonstration of proficiency at that level from one of the following: Arabic, Chinese, French, Ancient Greek, German, Hebrew, Hindi, Italian, Japanese, Latin, Portuguese, Russian, or Spanish.</td>
</tr>
<tr>
<td>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 one of the following: Astronomy, Biology, Chemistry, Geology, Physics</td>
</tr>
<tr>
<td>History: Complete one course in pre-modern history and one course in modern history from the list of approved courses satisfying the history requirement (6 credit hours).</td>
</tr>
<tr>
<td>Social Sciences: Complete 6 credit hours from one or two of the approved social science areas.</td>
</tr>
<tr>
<td>Humanities: Complete 12 credit hours from the approved Humanities areas with no more than 6 credit hours in any one of the areas (except interdisciplinary HONS).</td>
</tr>
<tr>
<td>First-Year Experience: 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.</td>
</tr>
</tbody>
</table>

### Degree Requirements

<table>
<thead>
<tr>
<th>Minimum GPA</th>
<th>Minimum Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major</td>
<td>Cumulative</td>
</tr>
<tr>
<td>2.00</td>
<td>2.00</td>
</tr>
<tr>
<td></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](#).

<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>
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</thead>
<tbody>
<tr>
<td>PHYS 111</td>
<td></td>
<td>4</td>
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<td>NATSCI</td>
<td>Pre-req for PHYS 112, Major core requirement</td>
</tr>
<tr>
<td>MATH 120</td>
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<td>MATH</td>
<td>Co-req for PHYS 111</td>
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<td>General Education Requirement</td>
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<td>3-4</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>General Education Requirement</td>
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<td>3-4</td>
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<table>
<thead>
<tr>
<th>Semester Two</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>
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<tbody>
<tr>
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<td>NATSCI</td>
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<td>MATH 220</td>
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<tr>
<td>General Elective</td>
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<td>3-4</td>
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</tbody>
</table>

### First Year Notes

**Note 1:** The General Education English requirement should be completed within the first or second semester.

**Note 2:** General Education 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:** Meteorology concentration requires 18 credits, at least two courses from a core of five, then electives to fill out the 18 credits.

**Note 4:** Physics BA: 30 hours in physics. 19 core + 11 elective

**Note 5:** If the student is not ready to take MATH 120 their first semester, they should take math every semester until they finish MATH 221. Start the general physics class, PHYS 111, as soon as they can.

**SUMMER TERM:** Summer term is most useful for taking the introductory courses in physics, math, and also for gen ed courses. In particular it is useful for catching up on math if a student is behind. One could also significantly lighten their academic year burden, and graduate early by judicious use of summer terms. Rather than an end-of-degree term, i.e. a 9th semester, as it is listed on the form, it more often is done between 2nd and 3rd semester and 4th and 5th semesters, that is, during the first two summers here.
<table>
<thead>
<tr>
<th>Semester Three</th>
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<tbody>
<tr>
<td><strong>Course Subject and Number</strong></td>
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<tr>
<td>PHYS 230</td>
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<td>MATH 221</td>
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<td>Concentration Core</td>
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<th>Semester Four</th>
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<td><strong>Course Subject and Number</strong></td>
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<tr>
<td>General Education Requirement</td>
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</tbody>
</table>

**Second Year Notes**

Note 1: Look into research opportunities in the department

Note 2: Special topics, research, and internship type courses must be topically relevant, as approved by the program director, if they are to count towards the concentration.

Note 3: Foreign language? Probably start no later than second year.
## Third Year

### Semester Five

<table>
<thead>
<tr>
<th>Course Subject and Number</th>
<th>Credit Hrs.</th>
<th>Min. Grade</th>
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<td>General Education Requirement</td>
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### Semester Six

<table>
<thead>
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### Third Year Notes

Note 1: Look into research opportunities in the department

Note 2: Special topics, research, and internship type courses must be topically relevant, as approved by the program director, if they are to count towards the concentration.
### Fourth Year

<table>
<thead>
<tr>
<th>Semester Seven</th>
<th>Course Subject and Number</th>
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### Fourth Year Notes

Note 1: Must produce an accepted physics 420 proposal in PHYS 419. If 420 is used to satisfy the concentration, it must be topically appropriate, as approved by the concentration program director.

Note 2: Don’t forget to apply to graduate in MyCharleston!