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

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

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

<table>
<thead>
<tr>
<th>First Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Semester One</strong></td>
</tr>
<tr>
<td>Course Subject and Number</td>
</tr>
<tr>
<td>CSCI 220</td>
</tr>
<tr>
<td>CSCI 220L</td>
</tr>
<tr>
<td>MATH 120</td>
</tr>
<tr>
<td>General Education Requirement</td>
</tr>
<tr>
<td>DATA 101</td>
</tr>
</tbody>
</table>

| **Semester Two** |
| Course Subject and Number | Credit Hrs. | Min. Grade | Critical | GenEd | Course Notes |
| CSCI 221 | 3 | | TIME | | Pre-req for CSCI 230; Requires a C- or better in both CSCI220 and CSCI220L |
| DATA 210 | 3 | | TIME | | |
| MATH 207 | 3 | | TIME | | MATH Co-requisite for CSCI 221; Pre-req for CSCI 230 |
| General Education Requirement | 3-4 | | TIME | | |
| General Education Requirement | 3-4 | | | | Can substitute with social science or history |

**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: CSCI 221 and CSCI 230 are typically offered in the summer. Other CS courses are occasionally offered.

Note 4: Try to leave the TR 12:15 class period free throughout your CS career. Student computing meetings (ACM and WiC) are held at this time.

Note 5: All students majoring in a degree offered by the Computer Science Department must be advised every semester by their faculty advisor from CS.

Note 6: Data Science majors must choose a cognate area from an approved list. The number of cognate courses vary with the largest cognate having six lecture classes plus associated labs.
### 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>CSCI 230</td>
<td>3</td>
<td></td>
<td>TIME</td>
<td></td>
<td>Requires C- or better in CSCI 221</td>
</tr>
<tr>
<td>Emphasis 1</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td>A 300+ level course for an Emphasis, or a pre-req for a 300+ Emphasis course.</td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Semester Four

<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>General Education Requirement</td>
<td>3</td>
<td></td>
<td>TIME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emphasis 2</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td>A 300+ level course for an Emphasis, or a pre-req for a 300+ Emphasis course.</td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 250</td>
<td>3</td>
<td></td>
<td>TIME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Second Year Notes

Note 1: Consider an internship for the summer following your second year.

Note 2: Summer research experiences are a great opportunity. Talk with your advisor. Visit nsf.gov to search for Research Experiences for Undergraduates (reu) off campus.
## 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>CSCI 310</td>
<td>3</td>
<td></td>
<td>TIME</td>
<td></td>
<td>Requires a C- or better in CSCI 230</td>
</tr>
<tr>
<td>Emphasis 3</td>
<td>3-4</td>
<td></td>
<td>TIME</td>
<td></td>
<td>A 300+ level course for an Emphasis, or a pre-req for a 300+ Emphasis course.</td>
</tr>
<tr>
<td>MATH 350</td>
<td>3</td>
<td></td>
<td>TIME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH/CSCI Upper Level Elective</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td>Depending on Emphasis area, this requirement may have already been met.</td>
</tr>
</tbody>
</table>

### 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>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 334</td>
<td>3</td>
<td></td>
<td>TIME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 203</td>
<td>3</td>
<td></td>
<td>TIME</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td>Depending on Emphasis area, this requirement may have already been met.</td>
</tr>
<tr>
<td>MATH/CSCI Upper Level Elective</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emphasis 4</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td>Needed if prior Emphasis courses are pre-reqs and not at the 300+ Level</td>
</tr>
</tbody>
</table>

### Third Year Notes

Note 1: Consider doing an internship during and/or following your junior year.

Note 2: Consider a study abroad experience during the spring or summer semesters of your junior year.
## 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>Emphasis 5</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 440</td>
<td>3</td>
<td>TIME</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emphasis 6</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td>Needed if prior Emphasis courses are not at the 300+ Level</td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td>Needed if prior Emphasis courses are not at the 300+ Level</td>
</tr>
</tbody>
</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>DATA 495</td>
<td>3</td>
<td>TIME</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 441</td>
<td>3</td>
<td>TIME</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>General Education Requirement</td>
<td>3-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCI 470</td>
<td>3</td>
<td>TIME</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Fourth Year Notes

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