# CS & Physics Plan of Study

This is meant to be followed loosely as the Physics/Computer Science has many possible course combinations. Please refer to the course bulletin for a full list of courses that students can take. Reach out to your advisor if you have questions!

*indicates that choice is dependent on whether students have an AP Calculus or AP CS credit.

## Graduation Requirement Breakdown

### CAS Requirements
- CAS Programs require a minimum of 128 credits, excluding PDP, ROTC, and CASFY and CASSY courses.
- 4th semester foreign language or demonstration of equivalent proficiency.

### CS & Physics Joint Major Requirements
- 4 Group A Courses (CS111, CS112, CS 210 & CS330)
- MA123
- CS131
- MA127 or MA129
- CS211 or CS212
- PY251 or PY252
- PY313
- PY355
- PY421 & PY410
- PY536
- 1 other CS course at the 300 level
- 2 CS classes at level 300 or above
- PY 400/500s course or PY 371

### Hub Requirements

The HUB is a set of 26 requirements for all BU undergraduate students. They can be completed in ~10–12 courses. Hub courses can count toward majors & minors. Below are the list of Hub requirements that are not already included in the CS major courses:

- 1 Philosophical Inquiry & Life's Meanings
- 1 Aesthetic Exploration
- 1 Historical Consciousness
- 1 Scientific Inquiry I
- 1 Social Inquiry I
- 1 Scientific Inquiry II or Social Inquiry II
- 1 The Individual in Community
- 2 Global Citizenship and Intercultural Literacy
- 1 Ethical Reasoning
- 2 Research and Information Literacy
- 2 Teamwork/Collaboration
- 1 First-Year Writing Seminar
- 1 Writing, Research, and Inquiry
- 2 Writing-Intensive Course
- 1 Oral and/or Signed Communication

### Fall

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<thead>
<tr>
<th>FRESHMAN</th>
<th>SOPHOMORE</th>
<th>JUNIOR</th>
<th>SENIOR</th>
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</thead>
<tbody>
<tr>
<td>MA 123: Calculus 1 or MA 124: Calculus II</td>
<td>CS 111: Intro to CS 1</td>
<td>CS 210: Computer Systems</td>
<td>CS course level-300 or above</td>
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<tr>
<td>CS 111: Intro to CS 1</td>
<td>PY 251: Principles of Physics 1 or PY 211: General Physics I</td>
<td>CS level-300 course</td>
<td>PY 536: Quantum Computing</td>
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<tr>
<td>WR 120: First-Year Writing Seminar</td>
<td>MA 124 or Foreign Language/Hub Course</td>
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### Spring

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<tr>
<th>FRESHMAN</th>
<th>SOPHOMORE</th>
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<tbody>
<tr>
<td>PY 252: Principles of Physics 2 or PY 212: General Physics II</td>
<td>CS 112: Intro to CS 2</td>
<td>CS330: Intro to Analysis of Algorithms</td>
<td>CS course level-300 or above</td>
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<tr>
<td>Second Semester Writing Course - WR 151, WR 152 or WR 153</td>
<td>Hub Course</td>
<td>PY421: Intro to Computational Physics</td>
<td>Hub Course</td>
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<tr>
<td>MA 124 or Foreign Language/Hub Course</td>
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### Sophomore

- CS 131: Combinatoric Structures
- Foreign Language Course/Hub Course

### Junior

- Foreign Language Course/Hub Course

### Senior

- Foreign Language Course/Hub Course

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