# CS & Stats Plan of Study

This plan is meant to be followed loosely as the Stats/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.

**The number of language courses you need to take is determined by a number of factors including advanced placement tests, proficiency in a second language, and placement tests. These slots can be filled with Hub or second language classes depending on how many you need, but should be filled with a second language class if you need it.

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### FALL

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<thead>
<tr>
<th>FRESHMAN</th>
<th>SOPHMORE</th>
<th>JUNIOR</th>
<th>SENIOR</th>
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<tbody>
<tr>
<td>MA 123: Calculus 1 or MA 124: Calculus II</td>
<td>MA 213: Basic Probability and Statistics</td>
<td>CS330: Intro to Analysis of Algorithms</td>
<td>One of CS320, CS332, or CS350</td>
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<tr>
<td>WR 120: First-Year Writing Seminar</td>
<td>Hub Course or MA 225: Multivariate Calculus</td>
<td>Hub Course</td>
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<tr>
<td>Foreign Language Course/Hub Course**</td>
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### SPRING

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<th>JUNIOR</th>
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</tr>
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<tbody>
<tr>
<td>MA 124: Calculus II or MA 225: Multivariate Calculus</td>
<td>CS 210: Computer Systems</td>
<td>MA 582: Mathematical Stats or MA 589: Computational Stats</td>
<td>CS Elective 400 or above</td>
</tr>
<tr>
<td>CS 112: Intro to CS 2</td>
<td>MA 214: Applied Statistics</td>
<td>MA 242: Linear Algebra</td>
<td>CS Elective 400 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>One of CS320, CS332, or CS350</td>
<td>Hub Course</td>
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**CS & Stats Joint Major Requirements**

**Lower Division CS Courses**
- CS111 & CS112
- CS 210
- CS 210
- MA123 & MA124
- MA213 & MA214
- MA225
- MA242
- MA293 or CS 131
- MA 581 or CAS CS 237

**Upper Division Courses**
- CS330
- 2 of CS320, CS332, or CS350
- 2 CS400+ courses
- MA 575 Linear Models
- MA 582 or MA 589

**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 joint major courses:

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

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**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.

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**Hub Course**

- MA 123: Calculus 1 or MA 124: Calculus II
- CS 111: Intro to CS 1
- WR 120: First-Year Writing Seminar
- Foreign Language Course/Hub Course**

**CS Elective 400 or above**

- MA 214: Applied Statistics
- CS 210: Computer Systems
- MA 582: Mathematical Stats or MA 589: Computational Stats
- MA 575: Linear Models
- MA 582 or MA 589

**CS Elective 400 or above**

- MA Elective level 200+ in Statistics or Probability
- MA Elective level 200+ in Statistics or Probability

**MA Elective level 200+ in Statistics or Probability**

- MA 214: Applied Statistics
- MA 242: Linear Algebra
- One of CS320, CS332, or CS350
- Hub Course

**Hub Course**

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