CS & Math Plan of Study

This is meant to be followed loosely as the Math/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.

**FALL**

| MA 123: Calculus 1 or MA 124: Calculus II | MA 124: Calculus II or MA 225: Multivariate Calculus |
| CS 111: Intro to CS 1 | CS 112: Intro to CS 2 |
| WR 120: First-Year Writing Seminar | Second Semester Writing Course - WR 151, WR 152 or WR 153 |
| Foreign Language Course | Foreign Language Course |

**SPRING**

| CS 210: Computer Systems or Group C Course | MA 124: Calculus II or MA 225: Multivariate Calculus |
| MA 293: Discrete Math or CS 131: Combinatoric Structures | MA 242: Linear Algebra |
| Hub Course or MA 225: Multivariate Calculus | Hub Course |
| Foreign Language Course | Foreign Language Course |

**FRESHMAN**

1. MA 123: Calculus 1 or MA 124: Calculus II
2. CS 111: Intro to CS 1
3. WR 120: First-Year Writing Seminar
4. Foreign Language Course

**SOPHOMORE**

1. CS 210: Computer Systems or Group C Course
2. MA 293: Discrete Math or CS 131: Combinatoric Structures
3. Hub Course or MA 225: Multivariate Calculus
4. Foreign Language Course

**JUNIOR**

1. CS330: Intro to Analysis of Algorithms
2. MA Elective level 200 or above
3. Hub Course
4. Hub Course

**SENIOR**

1. CS Group C Course
2. Math Two Course Sequence Part 1
3. Hub Course
4. Hub Course

**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 & MA Joint Major Requirements**
- 4 Group A Courses (CS111, CS112, CS 210, CS330)
- MA293 or CS 131
- MA 123 & MA 124 or MA 124 & MA or MA 124 & MA
- at least 2 Group B Courses
- at least 2 Group C Courses
- 2 Group D Courses
- CAS MA 225 or MA 230
- MA 581 or CAS CS 237
- MA 242 Linear Algebra or MA 442
- 2 MA courses 200-level or above
- 2 courses in a upper division math sequence

**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