

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

SPRING

FRESHMAN

MA 123: Calculus 1 or* MA 124: Calculus II

MA124 : Calculus II or MA 225: Multivariate Calculus

CS 111: Intro to CS 1 or* CS 112: Intro to CS 2

CS 112: Intro to CS 2 or CS 210: Computer Systems

WR 120: First-Year Writing Seminar

Second Semester Writing Course - WR 151, WR 152 or WR 153

Foreign Language Course

Foreign Language Course

SOPHMORE

CS 210: Computer Systems

MA581: Probability or CS237: Probability in Computing

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

JUNIOR

CS330: Intro to Analysis of Algorithms

MA 294: Applied Abstract Algebra

MA Elective level 200 or above

One of CS320, CS332, or CS350

Hub Course

MA Elective level 200 or above

Hub Course

Hub Course

SENIOR

One of CS320, CS332, or CS350

CS Elective 400 or above

Math Two Course Sequence Part 1

CS Elective 400 or above

Hub Course

Math Two Course Sequence Part II

Hub Course

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

Lower Division CS Courses

- CS111 & CS112
- CS 210

Lower Division Math Courses

- MA123 & MA124,
- MA 225 or MA 230
- MA 242 Linear Algebra or MA 442

Lower Division Math or CS Courses

- MA293 or CS 131
- MA 581 or CAS CS 237

Upper Division Courses

- CS330
- 2 of CS320, CS332, or CS350
- 2 CS electives level 400 or above
- 2 MA courses 200-level or above
- 2 courses in an 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 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
- 2 Teamwork/Collaboration
- 1 First-Year Writing Seminar
- 1 Writing, Research, and Inquiry
- 2 Writing-Intensive Course
- 1 Oral and/or Signed Communication