

CS & Stats Plan of Study

This 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.*

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

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/Hub Course**

Foreign Language Course/Hub Course**

SOPHMORE

MA 213: Basic Probability and Statistics

CS 210: Computer Systems

MA 293: Discrete Math or CS 131: Combinatoric Structures

MA 214: Applied Statistics

Hub Course or MA 225: Multivariate Calculus

Hub Course

Foreign Language Course/Hub Course**

Foreign Language Course/Hub Course**

JUNIOR

CS330: Intro to Analysis of Algorithms

MA 582: Mathematical Stats or MA 589: Computational Stats

MA581: Probability or CS237: Probability in Computing

MA 242: Linear Algebra

Hub Course

One of CS320, CS332, or CS350

Hub Course

Hub Course

SENIOR

One of CS320, CS332, or CS350

CS Elective 400 or above

MA 575: Linear Models

CS Elective 400 or above

Hub Course

MA Elective level 200+ in Statistics or Probability

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 & Stats Joint Major Requirements

Lower Division CS Courses

- CS111 & CS112
- CS 210

Lower Division Math Courses

- MA123 & MA124,
- MA213 & MA214
- MA225
- MA242

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 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