

B.A. Computer Science & Economics

Department of Computer Science & Department of Economics

Name: _____ BU ID: _____ Date: _____

CAS Foreign Language Requirement *(4th semester proficiency is required)*

☐ _____ ☐ _____ ☐ _____ ☐ _____

4th semester proficiency can be displayed via college level coursework, BU CAS proctored language placement & proficiency exams, AP, IB, or other advanced credit.

Principal Computer Science Courses

☐ **CS111:** Introduction to Computer Science I ☐ **CS112:** Introduction to Computer Science 2 ☐ **CS210:** Computer Systems ☐ **CS330:** Introduction to the Analysis of Algorithms

Mathematical Foundations

☐ **CS131:** Combinatoric Structures ☐ **CS132:** Geometric Algorithms ☐ **MA123:** Calculus 1

Principal Economics courses

☐ **EC101:** Introduction to Microeconomic Analysis ☐ **EC102:** Introduction to Macroeconomic Analysis
☐ **EC201:** Intermediate Microeconomic Analysis ☐ **EC202:** Intermediate Macroeconomic Analysis ☐ **EC203:** Empirical Economics 1 ☐ **EC204:** Empirical Economics 2

Computer Science & Economics Electives

☐ _____ ☐ _____ ☐ _____ ☐ _____

Select two additional CAS CS 300+ courses and two additional CAS EC 300+ courses

CS & EC Electives *(Note: Semester offerings may change. See the BU Bulletin Course Directory and MyBU Portal for updated info.)*

300-Level CS Courses

CS320: Concepts of Programming Languages
CS332: Elements of the Theory of Computation
CS350: Fundamentals of Computing Systems
CS357: Introduction to Information Security
CS365: Foundations of Data Science
CS391: Topics in Computer Science

400-Level CS Courses

CS400: Topics in Computer Science
CS410: Advanced Software Systems
CS411: Software Engineering
CS412: Full-Stack Application Design and Development
CS440: Introduction to Artificial Intelligence
CS451: Distributed Systems

300-Level EC Courses

EC320: Economics of Less-Developed Regions
EC322: Political Economy of the Middle East and North Africa
EC323: Behavioral Economics
EC325: The Economics of Poverty and Discrimination in the United States
EC328: Urban and Regional Economics
EC330: European Business Environment: Institutions and Enterprise
EC332: Market Structure and Economic Performance
EC333: Market Organization and Public Policy
EC337: Economic Analysis of Legal Issues
EC341: Monetary and Banking Institutions
EC342: Monetary and Banking Theory

Directed Study or Research

CS401: Senior Independent Work
CS402: Senior Independent Work
CS491: Directed Study
CS492: Directed Study
EC401: Senior Independent Work
EC402: Senior Independent Work
EC411: Economics Practicum 1
EC412: Economics Practicum 2
EC491: Directed Study in Economics
EC492: Directed Study in Economics

Find additional Computer Science courses [here](#)

Find additional Economics courses [here](#)

DEGREE REQUIREMENT NOTES:

- A minimum of 128 credits is required for graduation (excluding PDP, ROTC, and CAS FY and SY courses).
- Transfer students must complete all 10 BU Hub general education requirements.
- Students are required to pursue study of a language other than English through the intermediate (fourth-semester) level or to demonstrate equivalent proficiency.
- All classes counting towards the Major in Computer Science and Economics must be completed with a grade of C or higher.
- Students should contact their CS (csadvise@bu.edu) and/or EC (ecadv@bu.edu) departments for respective course advising.
- QST QM221 Probabilistic and Statistical Decision Making for Management, or MA115, or MA213 are acceptable substitutes for EC203.
- All 500-level and above Economics courses are graduate-level courses. Special permission from the instructor is required for undergraduates wishing to take these courses.
- Departmental approval of transfer courses is required. Petitions for approval must be submitted to the Economics Department. Students must submit a Transfer Course Equivalency Form, found on the department's Undergraduate Student Resources website, along with a copy of the course syllabus.

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Name: _____ BU ID: _____

Academic Year	Fall Classes	Spring Classes
Academic Year	Fall Classes	Spring Classes
Academic Year	Fall Classes	Spring Classes
Academic Year	Fall Classes	Spring Classes

Notes:

10 BU Hub Requirements for Transfer students

Only required CS & EC courses are listed below

Philosophical, Aesthetic, and Historical Interpretation

Choose one of the following:

- ☐ Philosophical Inquiry and Life's Meaning
☐ Aesthetic Exploration
☐ Historical Consciousness

Scientific and Social Inquiry

- ☐ Scientific Inquiry I or Scientific Inquiry II

- ☐ Social Inquiry I or Social Inquiry II
EC101/102 (SO1);
EC201/202 (SO2)

Quantitative Reasoning

- ☐ Quantitative Reasoning II
MA123, EC204,
CS112/131/132/210/330

Diversity, Civic Engagement, and Global Citizenship

- Choose one of the following:
☐ The Individual in the Community
Global Citizenship & Intercultural Literacy
Ethical Reasoning

GCI: EC102

ETR: EC101

Communication

Choose one of the following:

- ☐ Writing, Research, and Inquiry
☐ Writing-Intensive

Intellectual Toolkit

- ☐ Critical Thinking (1 unit required)
CS111/112/131/330, MA123,
EC101/201/202

- ☐ Research and Information Literacy (1 unit req.)
EC204

- ☐ Teamwork/Collaboration (1 unit req.)

- ☐ Creativity/Innovation (1 unit req.)
CS111/112