

# B.A. Economics & Mathematics

Department of Economics & Department of Mathematics

Name: \_\_\_\_\_ BU ID: \_\_\_\_\_ Date: \_\_\_\_\_

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

|                                |                                |                                |                                |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| <input type="checkbox"/> _____ | <input type="checkbox"/> _____ | <input type="checkbox"/> _____ | <input type="checkbox"/> _____ |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|

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

## Prerequisites

|                                                                               |                                                                               |                                                   |                                                    |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------|
| <input type="checkbox"/> <b>EC101:</b> Introductory<br>Microeconomic Analysis | <input type="checkbox"/> <b>EC102:</b> Introductory<br>Macroeconomic Analysis | <input type="checkbox"/> <b>MA123:</b> Calculus I | <input type="checkbox"/> <b>MA124:</b> Calculus II |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------------------|

## Principal Economics Courses

|                                                                                      |                                                                                    |                                                                               |                                                                         |
|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <input type="checkbox"/> <b>EC201:</b> Intermediate<br>Microeconomic Analysis        | <input type="checkbox"/> <b>EC202:</b> Intermediate<br>Macroeconomic Analysis      | <input type="checkbox"/> <b>EC303/MA213:</b> Empirical<br>Economic Analysis 1 | <input type="checkbox"/> <b>EC304:</b> Empirical<br>Economic Analysis 2 |
| <input type="checkbox"/> <b>EC501:</b> Microeconomic<br>Theory (taken in the spring) | <input type="checkbox"/> <b>EC502:</b> Macroeconomic<br>Theory (taken in the fall) |                                                                               |                                                                         |
| <b>Three other 4-credit courses<br/>selected from EC320 - EC599</b>                  | <input type="checkbox"/> _____                                                     | <input type="checkbox"/> _____                                                | <input type="checkbox"/> _____                                          |

## Principal Mathematics Courses

|                                                                                                                                                              |                                                                       |                                                                |                                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| <input type="checkbox"/> <b>CS111:</b> Introduction to<br>Computer Science I                                                                                 | <input type="checkbox"/> <b>MA225/MA230:</b><br>Multivariate Calculus | <input type="checkbox"/> <b>MA242/MA442:</b> Linear<br>Algebra | <input type="checkbox"/> <b>MA569:</b> Optimization Meth-<br>ods of Operations Research |
| <b>Three other 4-credit courses<br/>selected from CAS MA226/231,<br/>MA415, MA416, MA433, MA511,<br/>MA512, MA581, MA582, MA583,<br/>MA584, MA585, CS112</b> | <input type="checkbox"/> _____                                        | <input type="checkbox"/> _____                                 | <input type="checkbox"/> _____                                                          |

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

### 300-Level Economics 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  
EC346: European Capital Markets  
EC348: Dynamic Macroeconomics  
EC356: Economics of the Labor Market  
EC358: Economics of Education  
EC360: British Macroeconomic Policy

### 300-Level Economics Courses

EC361: Economic Development of Europe:  
Between Union and Disunion  
EC363: Race and the Development of the  
American Economy: A Global Perspective  
EC364: Economic Policy: A British Perspective  
EC365: Economic Institutions in Historical  
Perspective  
EC367: Economics of the Public Sector  
EC368: Contemporary East Asian Economics  
EC369: Economic Development of Latin  
America  
EC370: The Chinese Economy  
EC371: Environmental Economics  
EC372: The Irish Economy  
EC377: Government, Business, and Labor  
EC379: Firms, Markets, and Economic Devel-  
opment  
EC385: Economics of Sports  
EC387: Introduction to Health Economics

### 300-Level Economics Courses

EC390: Special Topics in Economics  
EC391: International Trade  
EC392: International Macroeconomics

Find additional Economics courses [here](#)

### Mathematics Electives

MA226: Elementary Differential Equations  
MA231: Honors-Level Differential Equations  
MA415: Data Science in R  
MA416: Analysis of Variance  
MA433: Graph Theory  
MA511: Introduction to Analysis 1  
MA512: Introduction to Analysis 2  
MA581: Probability  
MA582: Mathematical Statistics  
MA583: Introduction to Stochastic Processes  
MA584: Multivariate Statistical Analysis  
MA585: Time Series and Forecasting  
CS112: Introduction to Computer Science 2

## DEGREE REQUIREMENT NOTES:

- A minimum of 128 credits is required for graduation (excluding PDP, ROTC, and CAS FY and SY courses).
- Students must complete all 26 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 Principal classes counting towards the Major in Economics & Mathematics must be completed with a grade of C or higher.
- Petitions for preapproval of transfer courses must be submitted to the Academic Advisor.
- Students who declared an Economics & Mathematics major prior to Fall '23 will automatically be held to the old requirements (namely, EC201, 202, 303, and 304), but may choose to follow the new requirements if they prefer. Students who declared an Economics & Mathematics major in Fall '23 or later must follow the new requirements.
- If you newly declare this major after having already taken EC201, EC202, EC203/303, and/or EC204/304, please consult an Economics advisor to determine if you need to complete additional Economics coursework for the joint major requirements.

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|----------------------|---------------------|-----------------------|
| <b>Academic Year</b> | <b>Fall Classes</b> | <b>Spring Classes</b> |
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|                      |                     |                       |
|                      |                     |                       |
| <b>Academic Year</b> | <b>Fall Classes</b> | <b>Spring Classes</b> |
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|                      |                     |                       |
| <b>Academic Year</b> | <b>Fall Classes</b> | <b>Spring Classes</b> |
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|                      |                     |                       |
| <b>Academic Year</b> | <b>Fall Classes</b> | <b>Spring Classes</b> |
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**Notes:**

## 26 BU Hubs for First-Year students

Review how major elective courses fulfill the HUB [here](#)

### Philosophical, Aesthetic, and Historical Interpretation

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

### Scientific and Social Inquiry

- ☐ Scientific Inquiry I or II \_\_\_\_\_
- ☐ Social Inquiry I or II EC101, EC102
- ☐ Scientific Inquiry II or Social Inquiry II EC221/222 (SO2), MA124 (SI2)

### Quantitative Reasoning

- ☐ Quantitative Reasoning I or II EC221/222/223
- ☐ Quantitative Reasoning II EC2224, MA123/124/225/242

### Diversity, Civic Engagement, and Global Citizenship

- ☐ The Individual in the Community \_\_\_\_\_
- ☐ Global Citizenship & Intercultural Literacy (2 units req.) EC102
- ☐ Ethical Reasoning EC101

### Communication

- ☐ First Year Writing Seminar \_\_\_\_\_
- ☐ Writing Research, and Inquiry \_\_\_\_\_
- ☐ Writing-Intensive (2 units required) \_\_\_\_\_
- ☐ Oral and/or Signed Communication \_\_\_\_\_
- ☐ Digital/Multimedia Expression \_\_\_\_\_

### Intellectual Toolkit

- ☐ Critical Thinking (2 units required) CS111, EC101/221/222/223/224, MA123/124/225/226/242
- ☐ Research and Information Literacy (2 units req.) \_\_\_\_\_
- ☐ Teamwork/Collaboration (2 units req.) \_\_\_\_\_
- ☐ Creativity/Innovation (2 units req.) CS111