## Mathematical Economics BA (CLA)

## Overview

The College of Liberal Arts' Department of Economics and the College of Science and Technology's Department of Mathematics jointly offer the Bachelor of Arts in Mathematical Economics as a platform for systematic concentration in the mathematical approach to economics. Economics has progressed in the last several decades by making extensive use of mathematical techniques. As a result, students who wish to pursue graduate study in economics, finance, accounting and other disciplines that make an extensive use of economics need a thorough grounding in both economics and mathematics. The Mathematical Economics curriculum provides this grounding with a broad selection of courses that cover all important areas of economics and the mathematical tools required for a critical, deep mastery of these areas. This program is especially recommended for those students who intend to pursue graduate studies in economics.

Campus Location: Main
Program Code: LA-MECN-BA

## Residency Requirements

Students must satisfy general Temple University residency requirements.
At least 10 courses required for the major must be completed at Temple. At least 5 Mathematics courses and 4 Economics courses must be completed at Temple.

## Distinction in Major

For distinction in Mathematical Economics, a student must have an overall GPA of 3.25 or higher. A student must also have a GPA of 3.50 or higher in the 3000+ Mathematics courses and a GPA of 3.60 or higher in the 3000+ Economics courses.

## Contact Information

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Learn more about the Bachelor of Arts in Mathematical Economics.
These requirements are for students who matriculated in academic year 2023-2024. Students who matriculated prior to fall 2023 should refer to the Archives to view the requirements for their Bulletin year.

## Summary of Degree Requirements

## University Requirements

- MATH 0701 and/or ENG 0701, if required by placement testing.
- All Temple students must take a minimum of two writing-intensive courses as part of their major. All students must take ECON 3598 as their capstone experience. The following is a list of courses that can be used to satisfy the remaining writing-intensive requirement:

| Code | Title | Credit <br> Hours |
| :--- | :--- | ---: |
| ECON 3596 | Energy, Ecology, and Economy | 3 |
| ECON 3597 | Health Economics | 3 |
| ECON 3696 | Behavioral Economics | 3 |
| ECON 3697 | The Economics of Sports | 3 |
| ECON 3698 | Economic Inequality | 3 |
| MATH 3096 | Introduction to Modern Algebra | 3 |
| or MATH 3098 | Modern Algebra | 3 |
| MATH 4096 | Senior Problem Solving | 3 |

- Students must complete the General Education (GenEd) requirements. Students who complete this major typically receive a waiver for 1 Quantitative Literacy (GQ) GenEd course.


## College Requirements

Completion of a minimum of 123 credits, including:

- 90 credits within the College of Science \& Technology (CST) or the College of Liberal Arts (CLA).
- 45 Upper-Level (2000+) credits within the College of Science \& Technology (CST) or the College of Liberal Arts (CLA).
- Two (2) Upper-Level (2000+) Liberal Art courses.
- Second (2nd) Level of a Foreign Language (1002).


## Major Requirements (60-62 credits)



[^0]| MATH 3137 <br> \& MATH 3138 | Real \& Complex Analysis I and Real \& Complex Analysis II |
| :---: | :---: |
| MATH 3141 <br> \& MATH 3142 | Advanced Calculus I and Advanced Calculus II |
| One Mathematics | level or above ${ }^{1,2}$ |
| Economics |  |
| $\begin{aligned} & \text { ECON } 1102 \\ & \text { or ECON } 1902 \end{aligned}$ | Microeconomic Principles <br> Honors Microeconomic Principles |
| $\begin{aligned} & \text { ECON } 3501 \\ & \text { or ECON } 3701 \end{aligned}$ | Intermediate Microeconomic Analysis Intermediate Microeconomic Analysis with Calculus |
| $\begin{aligned} & \text { ECON } 3502 \\ & \text { or ECON } 3702 \end{aligned}$ | Intermediate Macroeconomic Analysis Intermediate Macroeconomic Analysis with Calculus |
| $\begin{aligned} & \text { ECON } 3503 \\ & \text { or ECON } 3703 \end{aligned}$ | Introduction to Econometrics Econometric Theory |
| ECON 3504 | Mathematical Economics |
| ECON 3598 | Economics Writing Seminar |
| Two Economics electives at the 3000 level or above, with permission from advisor ${ }^{2}$ |  |



All students in the College of Liberal Arts are required to take a 1 credit seminar in professional development. CLA 1002 Professional Development for Liberal Arts Majors is the appropriate course option for this major. Other courses that fulfill this requirement are ENG 1801 Career Seminar and PSY 1002 Careers in Psychology.
2
One of the Mathematics or Economics electives must be a writing-intensive course in order to satisfy the University requirement that each student must fulfill two writing-intensive courses within the major.
3
MATH 2041, MATH 2941, MATH 2045, or MATH 2121 may be used to fulfill the Mathematics elective at the 3000 level or above.
4
You must complete the year-long sequence of either MATH 3043 and MATH 3044; or MATH 3137 and MATH 3138; or MATH 3141 and MATH 3142.


[^0]:    MATH $3043 \quad$ Numerical Analysis I
    \& MATH 3044 and Numerical Analysis II

