MATHEMATICAL ECONOMICS (COURSE 14-2)

Economics Department (http://catalog.mit.edu/schools/humanities-arts-social-sciences/economics/#undergraduatetext)

Bachelor of Science in Mathematical Economics

General Institute Requirements (GIRs)
The General Institute Requirements include a Communication Requirement that is integrated into both the HASS Requirement and the requirements of each major; see details below.

Summary of Subject Requirements

<table>
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<tr>
<th>Subjects</th>
<th>Science Requirement</th>
<th>Humanities, Arts, and Social Sciences (HASS)</th>
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- Requirement [between one and three subjects can be from the Departmental Program]; at least two of these subjects must be designated as communication-intensive (CI-H) to fulfill the Communication Requirement.

- Restricted Electives in Science and Technology (REST) Requirement [can be satisfied by 14.30, and 18.03 or 18.06 in the Departmental Program]

- Laboratory Requirement (12 units) [is satisfied by 14.32 in the Departmental Program]

Total GIR Subjects Required for SB Degree 17

Physical Education Requirement
Swimming requirement, plus four physical education courses for eight points.

Departmental Program
Choose at least two subjects in the major that are designated as communication-intensive (CI-M) to fulfill the Communication Requirement.

Required Subjects

<table>
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- Principles of Microeconomics
- Principles of Macroeconomics
- Introduction to Statistical Methods in Economics
- Econometric Data Science
- Real Analysis ¹
- Differential Equations
- Linear Algebra
- Economic Applications of Game Theory ²
- Intermediate Microeconomic Theory
- Networks

Select one of the following:

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14.19 Market Design
14.05 Intermediate Macroeconomics (CI-M)
14.18 Mathematical Economic Modeling (CI-M)
14.33 Research and Communication in Economics: Topics, Methods, and Implementation (CI-M)

Select one of the following:

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18.104 Seminar in Analysis (CI-M)
18.504 Seminar in Logic (CI-M)
18.784 Seminar in Number Theory (CI-M)

Restricted Electives
Select three additional subjects in mathematics and economics, with at least one subject in each discipline.

Units in Major 144
Unrestricted Electives 84-96
Units in Major That Also Satisfy the GIRs (48-60)

Total Units Beyond the GIRs Required for SB Degree 180

The units for any subject that counts as one of the 17 GIR subjects cannot also be counted as units required beyond the GIRs.

¹ Alternative versions of this subject, 18.100B, 18.100P, and 18.100Q, also satisfy this requirement.
² Subject has prerequisites that are outside of the program.