

Mathematical Economics Advising: Course Requirements & Sequencing

<http://math.richmond.edu/major-minor/mathecon.html>



| | Course Number | Prerequisites | When should I consider taking this course? |
|--|---|--|--|
| Core | ECON 101: Principles of Microeconomics ECON 102: Principles of Macroeconomics ECON 270: Introductory Econometrics ECON 271: Microeconomic Theory ECON 272: Macroeconomic Theory | - ECON 101 ECON 101, ECON 102, BUAD 202/ECON 170, and MATH 211 (or equivalent) ECON 101, ECON 102 and MATH 211 (or equivalent) ECON 102 and ECON 271 | Freshman Fall or Spring Complete by end of Sophomore Fall Sophomore Fall or Spring Sophomore Fall or Spring Complete by end of Junior Spring |
| | MATH 211: Calculus I MATH 212: Calculus II MATH 235: Multivariable Calculus MATH 245: Linear Algebra DSST 329 or MATH 300 or MATH 312 | High School Precalculus MATH 211 (or equivalent) MATH 212 MATH 212 or CMSC 222 See catalog for pre-reqs | Freshman Fall or Spring Complete by end of Sophomore Fall Sophomore Fall or Spring Sophomore Fall or Spring Complete by end of Junior Spring |
| | CMSC 150: Introduction to Computing OR ECON 242: Data Analysis & Computing | - ECON 101 | As early as possible, and definitely before end of Junior Fall |
| | ECON 341: Mathematical Economics (offered in Spring only) | ECON 271, MATH 212, MATH 245, and (CS 150 or ECON 242) | Junior Spring or Senior Spring |
| | Electives | | |
| 1 st Econ Elective (200/300-Level): _____ 2 nd Econ Elective (300-Level): _____ | Varies, nearly all require at least ECON 271 | Complete at least one by end of Junior Spring, and both by end of Senior Spring | |
| 1 st Math/DSST Elective (300-Level): _____ 2 nd Math/DSST Elective (300-Level): _____ | Varies, most require at least MATH 235 or MATH 245 | Complete at least one by end of Junior Spring, and both by end of Senior Spring | |

Note: A grade point average of C (2.00) is required in the major, with no course grade below a C- (1.70) in courses counting towards the major. Also note that many 200-level/300-level Economics courses require a C- or better grade in the prerequisite courses. ECON 341 does not count as elective courses in the major.

In place of the BUAD 202/ECON 170 pre-requisite for ECON 270 students may attempt an equivalent course such as DSST 329 (Probability). For a full list of allowable equivalent courses see the official catalog entry for ECON 270. Do note though that it is recommended that students consider taking BUAD 202 or ECON 170 or another introductory statistics course (vs. DSST 329) to meet the prerequisite requirement for ECON 270 as in many cases this will allow them to take ECON 270 early in their academic career helping with internship interviews, etc.

A full list of Economics and Math electives, including restrictions, can be found in the Math & Economics catalog listings.

For advice on what electives to take talk to your academic advisor, one of the Math-Econ Program coordinators, and/or look over the Careers with Mathematical Economics Major Handout.

For students interested in complementing their Mathematical Economics major with courses from the Business School, especially those interested in a career in Actuarial Sciences, Consulting, or Finance, should contact the Math-Econ Program Coordinator from the Economics Department: Saif Mehkari (smehkari@richmond.edu).

For questions, comments, or advice please contact the Math-Econ Program Coordinators: Kathy Hoke (khoke@richmond.edu) or Saif Mehkari (smehkari@richmond.edu).

The major requirements and course listing information above are subject to change. This is not an official catalog listing. Please always refer to the University of Richmond Registrar's website for the most up-to-date information on major requirements, course listings, prerequisites, and frequency of course offerings (Updated 15th October, 2024).

Mathematical Economics Advising: Major Planning Worksheet

<http://math.richmond.edu/major-minor/mathecon.html>



| | Fall Semester | Spring Semester |
|-----------|---------------|-----------------|
| Freshman | | |
| Sophomore | | |
| Junior | | |
| Senior | | |

Note: All course recommendations above are subject to class capacity constraints

| Major Requirements |
|---|
| <input type="checkbox"/> ECON 101 <input type="checkbox"/> ECON 102 <input type="checkbox"/> ECON 270 <input type="checkbox"/> ECON 271 <input type="checkbox"/> ECON 272 <input type="checkbox"/> MATH 211 <input type="checkbox"/> MATH 212 <input type="checkbox"/> MATH 235 <input type="checkbox"/> MATH 245 <input type="checkbox"/> DSST 329 or MATH 300 or MATH 312 <input type="checkbox"/> CMSC 150 or ECON 242 <input type="checkbox"/> ECON 341 <input type="checkbox"/> 1 st Math Elective <input type="checkbox"/> 2 nd Math Elective <input type="checkbox"/> 1 st Econ Elective <input type="checkbox"/> 2 nd Econ Elective <input type="checkbox"/> Major GPA = 2.0 <input type="checkbox"/> All course \geq C- |
| <p>Note: Students should consider taking BUAD 202, ECON 170 or another introductory stats course (vs. DSST 329) as a prereq for ECON 270. See note on previous page for more information.</p> |

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