

# 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 341: Mathematical Economics (offered in Spring only)	- ECON 101 ECON 101, ECON 102, BUAD 202/ECON 170, and MATH 211 (see note below) ECON 101, ECON 102 and MATH 211 (or equivalent) ECON 102 and ECON 271 ECON 271, MATH 212, MATH 245, and (CS 150 or ECON 242)	Freshman Fall or Spring Complete by end of Sophomore Fall Sophomore Fall or Spring Sophomore Fall or Spring Complete by end of Junior Spring Junior Spring or Senior Spring
	MATH 211: Calculus I MATH 212: Calculus II MATH 235: Multivariable Calculus MATH 245: Linear Algebra MATH 329: Probability	High School Precalculus MATH 211 (or equivalent) MATH 212 MATH 212 or CMSC 222 MATH 235 and MATH 245 (latter may be concurrent)	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	-	As early as possible, and definitely before end of Junior Fall
	1 <sup>st</sup> Econ Elective (300-Level): _____ 2 <sup>nd</sup> 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
Electives	1 <sup>st</sup> Math Elective (300-Level): _____ 2 <sup>nd</sup> Math 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 and MATH 329 do 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 MATH 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. MATH 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. Also note that MATH 212 (Calculus II) and MATH 235 (Multivariable Calculus) count as alternative pre-requisites in place of the MATH 211 pre-requisite for ECON 270.

A full list of 300-level Economics and Math electives can be found in the Math & Economics catalog listings. DSST 389 counts as a MATH 300-level elective too.

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](mailto:smehkari@richmond.edu)).

For questions, comments, or advice please contact the Math-Econ Program Coordinators: Paul Kvam ([pkvam@richmond.edu](mailto:pkvam@richmond.edu)) or Saif Mehkari ([smehkari@richmond.edu](mailto: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 21<sup>st</sup> October, 2022).

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