

MATHEMATICAL ECONOMICS, B.S.

Requirements

The Department of Economics and the Department of Mathematics and Statistics offer a joint major leading to a bachelor of science degree in mathematical economics. This interdisciplinary program offers the student an opportunity to apply mathematical methods to the development of economic theory, models, and quantitative analysis. The major has the following course requirements:

Code	Title	Hours
Required Major Courses		
MST 112	Calculus with Analytic Geometry II	4
MST 113	Multivariable Calculus	4
MST 121	Linear Algebra I	3
MST 254	Optimization Theory	3
ECN 150	Introduction to Economics	3
ECN 210	Intermediate Mathematical Microeconomics	3
ECN 211	Intermediate Mathematical Macroeconomics	3
ECN 215	Econometric Theory and Methods	3
ECN 318	Advanced Topics in Mathematical Economics	3
Select one of the following:		3
MST 354	Discrete Dynamical Systems	
ECN 316	Game Theory	
ECN 317	Market Design	
Select one of the following:		3
ECN 322	Monetary Theory and Policy	
ECN 323	Financial Markets	
ECN 352	International Finance	
ECN 374	Topics in Macroeconomics	
ECN 375	Macroeconomic Models	
Two additional (3h) courses chosen with the approval of the program advisers		6

Students selecting the joint major must receive permission from both the Department of Mathematics and Statistics and the Department of Economics. Prior to declaring the major, students must have a minimum grade of B- or AP credit in ECN 150 and MST 112 or else have permission from both the Department of Economics and Department of Mathematics and Statistics. Graduation requirements include a grade of at least a C- in MST 113, MST 121, ECN 210 and ECN 211.

Honors

Students who have a GPA of at least 3.0 overall and 3.3 in courses for the mathematical economics major and who complete the research course, ECN 399 or MST 391 and MST 392 with a minimum grade of B- will be considered by the faculty for the graduation distinction, "Honors in Mathematical Economics."