

Quantitative Economics- Bachelor of Science

For information, contact the Department of Economics, 2054 Farmer School of Business, 513-529-2836.

This program enables students to undertake a more rigorous and quantitative course of study, while still completing their degree work in four years. Additional required courses (including more quantitative courses), combined with more advanced mathematics and statistics requirements are an ideal preparation for graduate training in economics, as well as jobs in business, industry and government that require the more technical tools of economic theory and econometrics.

Honors in Economics

For details on honors in economics please see the departmental website.

Program Requirements

(36 semester hours, plus 20-21 related hours)

Code	Title	Credit Hours
Core Courses		
ECO 201	Principles of Microeconomics	3
ECO 202	Principles of Macroeconomics	3
ECO 311	Examining Economic Data and Models	3
ECO 315	Intermediate Microeconomic Theory	3
ECO 317	Intermediate Macroeconomic Theory	3
Select one of the following:		3
ECO 411	Advanced Empirical Methods	
ECO 414	Mathematical Economics	
ECO 465	Game Theory with Economic Applications	
An acceptable alternative economics, mathematics, or statistics course ¹		
Select 18 hours in economics that are at the 300-level or above; at least six of these hours must be in courses that require ECO 315 and/or ECO 317 as a prerequisite and are numbered at 410 or above. ^{2,3}		18
Related Hours (20 required)		
Mathematics:		
MTH 222	Introduction to Linear Algebra	3
MTH 249	Calculus II	4-5
or MTH 251	Calculus II	
MTH 252	Calculus III	4
Select one of the following:		3
ISA 444	Business Forecasting	
MTH 347	Differential Equations	
MTH 432	Optimization	
MTH 441	Real Analysis	
STA 463	Regression Analysis	
STA 467	Statistical Learning	
STA 483	Analysis of Forecasting Systems	

Statistics: take both		
STA 301	Applied Statistics	3
STA 401	Probability	3
Total Credit Hours		56-57

- ¹ Alternatives must be approved by the departmental chief advisor, ideally before the student enrolls in the course.
- ² ECO 315 and ECO 317 must be taken at Miami. At least three additional hours of economics numbered 300 must be taken at Miami. Up to three hours of Summer Scholar credit can be applied toward the 15 hours of advanced economics. Exceptions must be approved by the director of undergraduate studies.
- ³ Prerequisites for all 300- and 400-level course include ECO 201 and ECO 202 unless otherwise stated.