

# Quantitative Economics, B.A.

The Department strongly urges students to consider the major in Quantitative Economics, which best prepares them for careers in business and finance, for law school, for M.B.A. programs, and for graduate studies in the social sciences.

The Honors Program in Economics is open to high-achieving students in all Economics majors.

NOTE: Students may complete only one of the three Economics majors.

**Freshmen:** Preference will be given to those who rank among the highest using the selection criteria as stated in the Undergraduate Admissions section of this *Catalogue*.

**Transfer Student Applicants:** Transfer applicants with the highest grades overall who satisfactorily complete course prerequisites will be given preference for admission. All applicants must complete one course in microeconomics, one course in macroeconomics, and two semesters/two quarters of approved first-year calculus. Applicants interested in the major of Quantitative Economics must also complete one quarter/one semester of approved linear algebra.

**Change of Major:** Information about change-of-major requirements, procedures, and policies is available in the School of Social Sciences Undergraduate Student Affairs Office and at the UCI Change of Major Criteria website (<http://www.changeofmajor.uci.edu>).

## Departmental Requirements for the Major in Quantitative Economics

The Department strongly urges students to consider the major in Quantitative Economics, which best prepares them for careers in business and finance, for law school, for M.B.A. programs, and for graduate studies in the social sciences. University and School requirements must be met and must include 19 courses as specified below.

A. Lower-division:

ECON 20A- 20B	Basic Economics I and Basic Economics II
MATH 2A- 2B	Single-Variable Calculus and Single-Variable Calculus
MATH 3A	Introduction to Linear Algebra

B. Upper-division:

ECON 105A- 105B- 105C	Intermediate Quantitative Economics I and Intermediate Quantitative Economics II and Intermediate Quantitative Economics III
ECON 123A- 123B	Econometrics I and Econometrics II

C. Select one of the following series:

STATS 120A- 120B- 120C	Introduction to Probability and Statistics I and Introduction to Probability and Statistics II and Introduction to Probability and Statistics III
MATH 130A- 130B- 130C	Probability I and Probability II and Stochastic Processes

D. Complete five additional four-unit upper-division Economics electives. One course must satisfy the upper-division writing requirement. Two courses must be selected from the list below.<sup>1</sup>

ECON 107	Economics of Asymmetric Information
ECON 116A	Game Theory I
ECON 116B	Game Theory II
ECON 122CW	Data Analysis Writing
ECON 123CW	Econometrics III
ECON 126	Computational Macroeconomics
ECON 128	Machine Learning for Economists
ECON 129	Special Topics in Quantitative Methods
ECON 131A	The Economics of Risk and Uncertainty
ECON 135	Mathematics of Finance

E. A maximum of three four-unit courses selected from ECON 190–199 may be counted toward the major.

<sup>1</sup> Additional courses may be added to this list; up-to-date information is available at the Department of Economics website (<http://www.economics.uci.edu/>).

Undergraduates in any of the three Economics majors may complete the Honors Program in Economics. Entry into the program requires a 3.4 GPA or better in upper-division Economics courses and an overall GPA of 3.2 or better. Undergraduates hoping to enter the program must apply no later than the spring quarter of their junior year. Students in the Honors Program must complete an honors thesis and the two-quarter Economics Honors Colloquium (ECON H190A-ECON 190BW; satisfies the upper-division writing requirement).

<b>Freshman</b>		
<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
ECON 20A	ECON 20B	Intro. Soc. Sci. course
MATH 2A	MATH 2B	General Education
Lower-Division Writing	Lower-Division Writing	MATH 3A
	General Education	
<b>Sophomore</b>		
<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
ECON 105A	ECON 105B	ECON 105C
STATS 120A	STATS 120B	STATS 120C
SOC SCI 3A	Intro. Soc. Sci. course	General Education
General Education	General Education	General Education
<b>Junior</b>		
<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
ECON 123A	ECON 123B	U-D Econ. course
U-D Econ. course	General Education	U-D Econ. course
U-D Econ. course	U-D Econ. course	Electives
General Education	Electives	Electives
<b>Senior</b>		
<b>Fall</b>	<b>Winter</b>	<b>Spring</b>
U-D Econ. course	U-D Econ. course	U-D Econ. course
Electives	Electives	Electives
Electives	Electives	Electives
Electives	Electives	Electives