

QUANTITATIVE ECONOMICS BACHELOR OF ARTS

Program Overview

Quantitative Economics is a joint program of the Zimpleman College of Business and the Mathematics department of the College of Arts and Sciences. The program offers integrated study in mathematics, statistics, and economics. The program is designed to prepare students for graduate study in economics (M.A. or Ph.D. programs) or business (Ph.D. programs or quantitatively oriented M.B.A. programs). The program also prepares students for research-oriented jobs in government, business, or consulting.

Two degree options are offered: a Bachelor of Science in Business Administration (B.S.B.A.) with a major in Quantitative Economics, and a Bachelor of Arts (B.A.) with a major in Quantitative Economics. Students who choose the B.S.B.A. degree should enroll in the Zimpleman College of Business. Students who choose the B.A. degree should enroll in the College of Arts and Sciences. Students earning the B.S.B.A. degree must also complete the required business core curriculum.

All programs are to be planned in careful consideration with a departmental advisor and be approved by that advisor.

B.A. Degree Requirements

The B.A. in Quantitative Economics is offered by the College of Arts and Sciences. The major requires 21 credits of economics, 18 credits of mathematics, 6.5 credits of statistics, and 3 credits of a capstone course in either economics or mathematics. All students must complete the following in addition to fulfilling the requirements of the Drake Curriculum.

Code	Title	Hours
MATH 050	CALCULUS I	3
MATH 070	CALCULUS II	3
MATH 080	LINEAR ALGEBRA	3
MATH 100	CALCULUS III	3
Electives		
Select two of the following:		6
MATH 101	MATHEMATICS REASONING	
MATH 110	MULTIVARIATE CALCULUS	
MATH 120	APPLIED DIFFERENTIAL EQUATIONS I	
MATH 125	MATHEMATICS MODELING	
MATH 127	INTRODUCTION TO GAME THEORY	
MATH 176	ADVANCED LINEAR ALGEBRA	
MATH 184	INTRODUCTION TO REAL ANALYTICAL MATHEMATICS I	
Statistics		
ACTS 131 & 131L	INTRODUCTION TO PROBABILITY I and INTRODUCTION TO PROBABILITY I LAB	3.5
ACTS 135	MATHEMATICAL STATISTICS	3
Economics		
ECON 002	PRINCIPLES OF MICROECONOMICS	3
ECON 010	PRINCIPLES OF MACROECONOMICS	3
Select one of the following:		3

ECON 170	INTRODUCTION TO ECONOMETRICS	
STAT 170	REGRESSION AND TIME SERIES	
ECON 173	INTERMEDIATE MICROECONOMICS ANALYSIS	3
ECON 174	INTERMEDIATE MACROECONOMICS ANALYSIS	3
Two additional economics courses numbered 100 or above		6
Capstone		
Select one of the following:		3
ECON 190	SENIOR SEMINAR	
MATH 191	MATHEMATICS CAPSTONE	
Total Hours		48.5

In addition to programmatic requirements, students are responsible for satisfying all requirements of the Drake Curriculum (<https://catalog.drake.edu/archive/2024-2025/undergraduate/academic-information/drake-curriculum/>), including Areas of Inquiry (AOI)

Student must also satisfy university graduation requirements (<https://catalog.drake.edu/archive/2024-2025/undergraduate/academic-information/graduation-requirements/>) for all undergraduate students..