

ECONOMICS, BA

Degree: Bachelor of Arts (BA)

Major: Economics

Program Overview

The BA in Economics is a structured program in which students learn to analyze problems of resource allocation and decision making and to understand the influence of these factors on economies and societies.

Our highly regarded major attracts some of the best students on campus. Students have the opportunity to assist Weatherhead faculty in their research activities and to participate in independent research projects.

Undergraduate Policies

For undergraduate policies and procedures, please review the Office of Undergraduate Studies section of the General Bulletin.

Program Requirements

Students seeking to complete this major and degree program must meet the general requirements for bachelor's degrees and the general requirements of the College of Arts and Sciences. Students completing this program as a secondary major while completing another undergraduate degree program do not need to satisfy the latter set of requirements.

Students who desire a *Secondary Major* in Economics should consult with a Weatherhead academic advisor.

Major Requirements

Code	Title	Hours
MATH 121 or MATH 125	Calculus for Science and Engineering I Math and Calculus Applications for Life, Managerial, and Social Sci I	4
ECON 102	Principles of Microeconomics	3
ECON 103	Principles of Macroeconomics	3
ECON 307	Intermediate Macro Theory	3
ECON 308 or ECON 309	Intermediate Micro Theory Intermediate Micro Theory: Calculus-Based	3
OPRE 207 or STAT 243 or STAT 312 or STAT 312R	Statistics for Business and Management Science I Statistical Theory with Application I Basic Statistics for Engineering and Science Basic Statistics for Engineering and Science Using R Programming	3
ECON 326	Econometrics (Ideally, Econometrics should be taken by the junior year to enrich understanding of upper-level elective courses and to enable engagement in more sophisticated economic analysis.)	4
Elective courses (a minimum of five additional economics courses at the 200 or 300 level). ECON 398 Honors Research II does not count toward fulfilling this requirement.		15
Total Hours		38

SAGES Senior Capstone

The basic Economics major does not require a capstone as part of the major. However, students need to complete a capstone as part of the SAGES requirement. The Economics Department offers the following courses for a capstone.

Code	Title	Hours
ECON 398	Honors Research II	3
ECON 395	Senior Capstone in Economics	3
ECON 399	Individual Readings and Research (upon approval of Senior Capstone Coordinator)	3-6

Concentration Requirements

Concentration in Quantitative Methods

The Quantitative Methods concentration includes the requirements above, AND the following additional or alternative requirements:

Code	Title	Hours
MATH 122 or MATH 126	Calculus for Science and Engineering II Math and Calculus Applications for Life, Managerial, and Social Sci II	4
ECON 309	Intermediate Micro Theory: Calculus-Based	3

Quantitative Methods - Any three of the following:

ECON 216	Data Visualization in R	3
ECON 327	Advanced Econometrics	3
ECON 329	Game Theory: The Economics of Thinking Strategically	3
ECON 364	Economic Analysis of Business Strategies	3
ECON 380	Computational Economics	3

Electives 9 units-At least 3 must be in economics at 200-level or 300-level, and at least 3 must be from non-economics electives menu below:

Mathematics		
MATH 201 or MATH 307	Introduction to Linear Algebra for Applications Linear Algebra	3
MATH 223	Calculus for Science and Engineering III	3
MATH 224 or MATH 228	Elementary Differential Equations Differential Equations	3
MATH 304	Discrete Mathematics	3
MATH 321	Fundamentals of Analysis I	3
Advanced Empirical Methods in Business		
BAFI 362	Advanced Financial Analytics	3
OPRE 301	Operations Research and Supply Chain Management	3

Programming

ENGR 131	Elementary Computer Programming	3
DESN 210	Introduction to Programming for Business Applications	3

Statistics		
ANTH 319	Introduction to Statistical Analysis in the Social Sciences	3
SOCI 307	Social Statistics	3
STAT 201	Basic Statistics for Social and Life Sciences	3
STAT 244	Statistical Theory with Application II	3
STAT 325	Data Analysis and Linear Models	3

STAT 326	Multivariate Analysis and Data Mining	3
CSDS 442	Causal Learning from Data	3

**NOTE: ECON 395 and ECON 398 do not count towards electives
(See information below on SAGES Senior Capstone).

SAGES Senior Capstone: Concentration in Quantitative Methods

Code	Title	Hours
Required - 3 units:		
ECON 395	Senior Capstone in Economics	3
or ECON 398	Honors Research II	