



Albion College

The Department of Economics and Management

Economics Major and Mathematics/Economics Major

The economics and mathematics/economics major combines analytical power with economic insight to prepare students for high-impact careers in data-driven fields. This interdisciplinary program blends rigorous coursework in mathematics, statistics, and economic theory with real-world application through research projects, case studies, and data analysis. Students benefit from co-curricular opportunities like math competitions, economics clubs, and speaker series that connect classroom learning with industry trends. Experiential learning—through internships, independent research, and collaborative problem-solving—builds the skills employers and graduate programs value most. Graduates emerge as adaptable thinkers and quantitative leaders, ready to tackle complex global challenges in finance, policy, consulting, and beyond.

ECONOMICS MAJOR

8 E&M classes plus two cognates

Required:

E&M 101 Principles of Microeconomics
E&M 102 The Economy and Financial Markets
E&M 202 Intermediate Macroeconomics
E&M 209 Intermediate Microeconomics with Calculus
E&M 300 Econometrics

Three units selected from the following:

E&M 273 Environmental and Natural Resource Economics
E&M 345 Money and Banking
E&M 346 Financial Markets
E&M 365 International Finance
E&M 366 International Trade
E&M 371 Issues in Modern Political Economy
E&M 372 Governmental Economics
E&M 374 Labor Economics
E&M 375 Health Economics
E&M 389 Selected Topics (with permission of the E&M Department chair)

Two cognates:

Math 141 Calculus of a Single Variable I or
Math 143 Calculus of a Single Variable II
or Math 245 Multivariate Calculus
E&M 200 Economic Statistics or Math 209
An Introduction to Statistics or Math 309
Mathematical Statistics

ALUMNI HIGHLIGHT



Egshiglen Batjargal '25 majored in international studies and economics with a minor in public policy. She's currently attending graduate school at Carnegie Mellon University to receive her masters of science in public policy and management with a data analytics concentration. "My experiences at Albion range from leadership and research to volunteering and active participation in class discussions. I've worked as an intern for Albion College Community Collaborative (AC3), served as a student researcher for the Albion Human Rights Lab for two years, and held leadership roles as president of the International Student Union and director of Public Relations for the Asian Cultural Engagement Group. Additionally, I studied abroad in Paris for a semester, which deepened my global perspective and enriched my understanding of cultural exchange.

"Albion is more than just a college - it's a place that nurtured my curiosity, empowered my voice, and provided me with the tools to create real change in the world."



Samantha White '20 was a mathematics and economics major and a statistics minor. She was a member of both Omicron Delta Epsilon and Kappa Mu Epsilon, national academic honor societies in economics and mathematics. Samantha was also part of Delta Gamma, a Greek women's organization, and was a tutor in mathematics. As a student she interned at

Merrill Lynch, where she learned the details of the wealth management industry by working closely with current financial advisors. Samantha is a registered financial advisor with Merrill Lynch in Auburn Hills, Michigan.

"Albion has allowed me to major in two rigorous subjects with the interdepartmental major. The professors at Albion have shown an immense amount of support and have gone out of their way to help me with whatever it was that I needed, including resume help and searching for internships."



MATHEMATICS/ECONOMICS MAJOR

13 units

Required:

E&M 101 Principles of Microeconomics
E&M 102 The Economy and Financial Markets
E&M 202 Intermediate Macroeconomics
E&M 209 Intermediate Microeconomics with Calculus
E&M 300 Econometrics
E&M 309 Mathematical Economics
MATH 141 Calculus of a Single Variable I
MATH 143 Calculus of a Single Variable II
MATH 239 Discrete Structures
MATH 245 Multivariate Calculus
MATH 247 Differential Equations and Linear Algebra
MATH 309 Mathematical Statistics

Choose one course from the following:

MATH 326 Operations Research
MATH 331 Real Analysis
MATH 360 Mathematical Modeling

FACULTY

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John Pearce '11 (CFA) is a portfolio manager at Illinois Municipal Retirement Fund. IMRF serves nearly 500,000 employees representing more than 3,000 employers throughout Illinois. IMRF is nationally recognized for excellence in the public pension community having received the Malcolm Baldrige National Quality Award in 2019 and maintaining an actuarial funding ratio near 100%. Pearce joined IMRF in 2019 to launch an internal equity management program and brings his experience in quantitative portfolio management to provide cost-efficient exposure to beneficial factor premia for the fund. Pearce and his team were responsible for ~\$5 billion of assets representing ~10% of IMRF's total portfolio.

Previously, Pearce served as director of quantitative research for NorthPointe Capital where he oversaw the development of quantitative models and application to domestic equity strategies. Pearce graduated with an MBA from the University of Chicago Booth School of Business as a Wallman Scholar (High Honors), with concentrations in analytic finance and behavioral science.

He completed his undergraduate degree in mathematics and economics, Phi Beta Kappa at Albion College. Pearce is a member of the CFA Society of Chicago and Chicago Quantitative Alliance, and was recognized in *Chief Investment Officer* magazine's Class of 2023 NextGens.

FOR MORE INFORMATION

We welcome your questions about economics and mathematics at Albion College

Department of Economics and Management

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Department of Mathematics

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