

QUANTITATIVE ECONOMICS - BS

The Quantitative Economics major at St. Catherine University equips students to improve social issues and business decisions with a rigorous analytical toolkit rooted in economics, mathematics, statistics, and data science. This interdisciplinary program trains students to apply quantitative reasoning, coding, economic modeling, and data visualization to address real-world challenges in public policy, finance, business, and social advocacy.

The Quantitative Economics major at St. Catherine University equips students with the tools to address real-world challenges and make meaningful contributions to both business and society. Combining economics, mathematics, statistics, and data science, the program offers a rigorous analytical foundation for those interested in using data to inform public policy, guide ethical decision-making, and support community well-being.

This interdisciplinary curriculum emphasizes quantitative reasoning, coding, economic modeling, and data visualization. Students engage with pressing issues such as labor market outcomes, environmental sustainability, and economic development through coursework in econometrics, optimization, cost-benefit analysis, and forecasting. These classes are supported by advanced training in data science, computer science, and mathematical statistics.

Graduates are well prepared for roles as policy analysts, researchers, economic consultants, and data-informed decision-makers across sectors, including government, nonprofits, education, healthcare, economic consulting, business, and finance. Many also pursue advanced study in economics, public policy, data science, law, and related fields.

With an emphasis on evidence-based analysis, the major helps students develop the skills to lead in data-driven organizations and contribute to conversations about economic equity, sustainability, and inclusive growth. Through professional writing, data storytelling, and clear communication, students learn to translate technical findings into actionable insights.

Outside the classroom, students gain hands-on experience through internships and collaborative research with faculty on topics such as educational equity, housing policy, and international development. Majors regularly present at undergraduate research conferences, and recent internship placements include the Minneapolis Federal Reserve, Ramsey County, Aeon, Wells Fargo, 3M, Sun Country Airlines, and the Minnesota Department of Transportation.

The program develops skilled analysts, researchers, and advocates who are ready to lead with integrity and use economics to improve lives in an increasingly data-driven world.

This major is offered in the College for Women.

Curriculum

Code	Title	Credits
Required Courses		
ECON 1090	Statistical Analysis for Decision Making	4
or STAT 1090	Statistical Analysis	
or PSYC 1090	Statistical Methods in Psychology	

or HLTH 1090	Biostatistics	
ECON 1120	Economics of Social Issues	4
ECON 2610	Principles of Microeconomics	4
ECON 2620	Principles of Macroeconomics	4
ECON 3050	Quantitative Impact Evaluation: Applied Research Skills	4
ECON 3610	Microeconomic Theory	4
ECON 3620	Macroeconomic Theory	4
ECON 3650	Cost-Benefit Analysis	4
ECON 4150W	Econometrics	4
ECON 4604	Internship	4
ECON 4850W	Theory to Action	4
ECON 3700	Methods and Modeling for Economics, Finance, and Analytics	4
or MATH 1130	Calculus I	
Choose one MATH course in consultation with advisor		4
Choose two STAT/DSCI/CSCI courses in consultation with advisor		8

Total Credits 60

Freshman			
	Fall Credits	Spring Credits	
ECON 1090		4 ECON 3700 or MATH 1130	4
ECON 1120, 2610, or 2620		4 ECON 2610, 1120, or 2620	4
	8		8
Sophomore			
	Fall Credits	Spring Credits	
ECON 3650		4 ECON 3620	4
MATH ELEC (chosen with advisor)		4 ECON 3050	4
ECON 2620, 1120, or 2610		4	
	12		8
Junior			
	Fall Credits	Spring Credits	
ECON 3610		4 ECON 4150W	4
DSCI ELEC, STAT ELEC, or CSCI ELEC (chosen with advisor)		4 STAT ELEC, DSCI ELEC, or CSCI ELEC (chosen with advisor)	4
	8		8
Senior			
	Fall Credits	Spring Credits	
ECON 4604		4 ECON 4850W	4
	4		4

Total Credits: 60