

BS in Economics with Emphasis in Quantitative Economics

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Degree Program Description

Economics is a broad discipline that explores the factors that determine production, distribution, and consumption of resources. An Economics degree provides a good foundation on how the economy and the world works and an understanding of the effects of policy issues. The BS degree in Economics with an emphasis in Quantitative Economics is a challenging degree program specifically designed for students who plan to attend graduate school in Economics, Finance, or related fields. The curriculum includes more extensive quantitative coursework than the standard BS degree, including upper-level mathematics and statistics courses, but still allows students to take electives that focus on various aspects of economics, such as labor, law, and education. Graduates in Economics enter a diverse field of jobs in government, banking, insurance or other financial sectors, a wide range of private sector businesses, such as the tech industry or health care, or even open their own businesses. Often students pursuing a BS degree with an Emphasis in Quantitative Economics double major with Mathematics or Statistics and look at employment positions in actuarial science or more analytical fields.

Major Program Requirements

Students must earn a grade of C- or higher in all Economics, Mathematics and Statistics courses, and must have at least a 2.0 GPA in Economics courses to earn the degree. In addition to University (<https://catalog.missouri.edu/academicdegreerequirements/universityrequirements/>), general education (<https://catalog.missouri.edu/academicdegreerequirements/generaleducationrequirements/>), and College of Arts and Science (<https://catalog.missouri.edu/collegeofartsandscience/#undergraduatetext>) requirements, students must also meet the following major program requirements. All major requirements in the College of Arts and Science must be completed with grades of C- or higher unless otherwise indicated.

MATH 1100 & MATH 1140 or MATH 1160	College Algebra and Trigonometry Precalculus Mathematics	5
MATH 1500	Analytic Geometry and Calculus I	5
ECONOM 1014	Principles of Microeconomics	3
ECONOM 1015	Principles of Macroeconomics	3
ECONOM 3271	Introduction to Applied Econometric Practice	3
ECONOM 4351	Intermediate Microeconomics	3
ECONOM 4353	Intermediate Macroeconomics	3
ECONOM 4370	Applied Mathematics for Economics (Or 4000 Level ECONOM course)	3

ECONOM 4371	Introductory Econometrics	3
MATH 1700	Calculus II	5
MATH 2300	Calculus III	3
MATH 3000	Introduction to Advanced Mathematics (Or 4000 Level MATH or STAT course)	3
MATH 4140	Matrix Theory	3
MATH 4700	Advanced Calculus of One Real Variable I (Or 4000 Level MATH or STAT course)	3
STAT 4710 & STAT 4510 or STAT 4750 & STAT 4760	Introduction to Mathematical Statistics and Applied Statistical Models I Introduction to Probability Theory and Statistical Inference	6
ECONOM Electives*	See Electives section for more specific requirements.	12

Economics Electives

Students must complete at least four Economics electives (12 credit hours total), with at least two courses (6 hours) at the 4000- level. Students who double or dual major will be eligible to waive one 3000-level Economics Elective course.

One 3000+ level Economics course (3 hours) must be Writing Intensive. If a student is a double or dual major, we will allow a Writing Intensive taken in the other major to fulfill the Economics major Writing Intensive requirement. The student must still complete the minimum number of Economics electives.

Semester Plan

Below is a sample plan of study, semester by semester. A student's actual plan will vary based on course choices where options are available.

First Year			
Fall	CR	Spring	CR
ECONOM 1014		3 ECONOM 1015	3
MATH 1160		5 MATH 1500	5
Missouri State Law Requirement: Social Science from Arts and Science		3 ENGLISH 1000	3
Biological or Physical Science		3 Behavioral Science from Arts and Science	3
		Second major, minor, certificate, or elective	2
			16
Second Year			
Fall	CR	Spring	CR
ECONOM 4351		3 ECONOM 3271	3
MATH 1700		5 ECONOM 4353	3
Behavioral Science or Social Science, 2000+ level		3 MATH 2300	3
Second major, minor, certificate, or elective		3 Second Language Alternative	3
Second major, minor, certificate, or elective		1 First Writing Intensive	3
			15
Third Year			
Fall	CR	Spring	CR
MATH 4140		3 ECONOM, 3000+ level Writing Intensive	3

ECONOM 4371	3	STAT 4710 or 4750	3
Second Language Alternative	3	Second Language Alternative	3
Humanities from Arts and Science	3	Humanities	3
Second major, minor, certificate, or elective	3	Second major, minor, certificate, or elective	3
15		15	
Fourth Year			
Fall	CR	Spring	CR
ECONOM 4370	3	ECONOM, 4000- level	3
ECONOM, 4000- level	3	ECONOM, 3000+ level	3
STAT 4510 or 4760	3	MATH 4700	3
MATH 3000	3	Second Language Alternative	3
Second major, minor, certificate, or elective	3	Humanities	3
15		15	

Total Credits: 120

Degree Audit

The degree audit is an automated report reflecting a student's academic progress toward the completion of a degree.

MU students can request a degree audit by logging in to myDegreePlanner (<https://mydegreeplanner.missouri.edu>). Students may also access myDegreePlanner via myZou, in the Student Center, click on the Academic Progress Tile, then select Request Degree Audit. The audit automatically pulls in the student's MU course work, transfer courses and courses in progress. This is available to current students, admitted students, and those who last attended less than three terms ago.

Past MU students can request a degree audit by contacting the Academic Advising Unit of the division in which they were last enrolled at MU. For contact information, go to <https://advising.missouri.edu/contact/>.

Prospective students, can access a preliminary MU degree audit via <https://www.transferology.com> (<https://www.transferology.com/>). Information on the college credits already earned will have to be manually entered before it can be evaluated against current degree requirements.

For additional details on degree audits, go to <https://registrar.missouri.edu/degrees-audits/degree-audits/>.

Major and Career Exploration

The University of Missouri has many resources to assist you in exploring majors and career possibilities. For guidance, visit the Majors and Careers (<https://career.missouri.edu/majors-careers/>) website or view specific resources below.

- If you are considering a change of major or are exploring multiple majors, schedule an appointment with an advisor in the Discovery Center (<https://discoverycenter.missouri.edu/>) by calling (573)884-9700 or through MU Connect (<https://mizzou.starfishsolutions.com/starfish-ops/dl/instructor/serviceCatalog.html?bookmark=service/3761489>) Discovery Center service in your success network.
- If you have decided on a major, visit an academic advisor in the School or College that you are interested in to discuss the process of declaring the major (<https://advising.missouri.edu/majors-minors/changing-major/>).

- If you would like to learn more about your career interests, abilities, values and talents, visit the MU Career Center (<https://career.missouri.edu/connect/>). No Appointment is necessary to explore career options with one of our staff members.
- If you would like information about MU majors and degree programs, visit:
 - the Degrees, Majors (Degree Programs), Emphasis Areas, Minors and Certificates (<https://catalog.missouri.edu/degreesanddegreeprograms/>) page in the catalog,
 - the MU Majors (<https://majors.missouri.edu>) website.

For additional major and career exploration resources, visit Major & Career Exploration (<https://catalog.missouri.edu/majorcareereexploration/>) in the catalog.