

# BS in Economics

## 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 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 quantitative coursework than the BA degree, 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, private sector businesses or even open their own businesses. Often students pursuing a BS degree 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.

While students can pursue the Bachelor of Science in Economics students have the option to select the Quantitative Track. The Quantitative Track is for students who plan to attend graduate school in economics or finance.

MATH 1100 or MATH 1160	College Algebra Precalculus Mathematics	3
MATH 1400 or MATH 1500	Calculus for Social and Life Sciences I Analytic Geometry and Calculus I	3
ECONOM 1014	Principles of Microeconomics	3
ECONOM 1015	Principles of Macroeconomics	3
ECONOM 3251	Managerial Economics	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 Additional ECONOM 4000- level course)	3
ECONOM 4371	Introductory Econometrics	3
<b>9 Hours of ECONOM Electives</b> * See Economics Electives section for more specific requirements.		<b>9</b>
<b>12 Hours of Complementary Field Courses (if not pursuing Quantitative Track)</b>		<b>12</b>

2000+ level coursework in STEM (BIO\_SC, CHEM, PHYSCS, MATH, STAT), ACCTCY, FINPLN, FINANC, MANGMT, MRKTNG, and PUB\_AF courses. May include any level CMP\_SC, DATA\_SCI, ENGINR, or INFOTC courses. All grades must be C- or higher.

<b>Requirements for optional Quantitative Track</b>		
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	3
ECONOM 4371	Introductory Econometrics	3
<b>12 Hours of ECONOM Electives</b> * See Electives section for more specific requirements.		<b>12</b>
MATH 1700	Calculus II	5
MATH 2300	Calculus III	3
MATH 4140	Matrix Theory	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
MATH 3000	Introduction to Advanced Mathematics (or a 4000- level MATH or STAT course)	3
MATH 4700	Advanced Calculus of One Real Variable I (or a 4000- MATH or STAT course)	3

## Second Language Alternative

A student may elect to fulfill a special option area instead of taking a second language. This area consists of at least 12 credits numbered 2000 or above that are not from the parent department, are not normally required of all departmental majors and do not appear elsewhere in the area of concentration. The second language alternative is planned by the student with the Economics Academic Advisor and must be approved by the Director of Undergraduate Studies.

## Economics Electives

Students must complete at least three Economics electives, 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.

## Accelerated BS in Economics to MA in Economics

Total credits for graduation = 138

- Undergraduate credits = 108 (Complete at least 90 credits and have a GPA of at least 3.25)
- Dual credits = 12 (taken at graduate level for credit toward both BS and MA degrees)
- Graduate credits = 18

### BS Core Requirements-Accelerated Option

ECONOM 1014 or ECONOM 1014H	Principles of Microeconomics Principles of Microeconomics-Honors	3
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ECONOM 1015	Principles of Macroeconomics	3
or ECONOM 1015H	Principles of Macroeconomics - Honors	
ECONOM 3271	Introduction to Applied Econometric Practice	3
ECONOM 4351	Intermediate Microeconomics	3
or ECONOM 4351H	Intermediate Microeconomics - Honors	
ECONOM 4353	Intermediate Macroeconomics	3
or ECONOM 4353W	Intermediate Macroeconomics - Writing Intensive	
ECONOM 4370	Applied Mathematics for Economics	3
ECONOM 4371	Introductory Econometrics	3

**Electives in Major**

Economics Electives- 12 Credits, at least six of which must be at the 4000-level or higher

Complementary fields courses: 2000-level+coursework in STEM (including Engineering, Computer Science, and Info Tech), Accounting, Finance, selected Public Affairs courses, and selected Management, Marketing and Personal Financial Planning courses-12 Credits.

**MA Core-Accelerated Option**

ECONOM 4370	Applied Mathematics for Economics	3
or ECONOM 7370	Quantitative Economics	
or ECONOM 8370	Mathematics for Economics	
ECONOM 4371	Introductory Econometrics	3
or ECONOM 7371	Introductory Econometrics	
or ECONOM 8472	Econometric Methods I	
ECONOM 8413	Research Workshop I	3
ECONOM 8451	Microeconomic Theory	3
or ECONOM 9451	Advanced Microeconomic Theory I	
ECONOM 8453	Macroeconomic Theory	3
or ECONOM 9453	Advanced Macroeconomic Theory I	
ECONOM 8473	Applied Econometrics	3
or ECONOM 9473	Econometric Theory II	

## Accelerated BS in Economics (Policy Track) to Master of Public Affairs

Total Credits for graduation = 141

- Undergraduate credits = 105
- Dual credits = 15 (taken at graduate level for credit toward both BS and MPA degrees)
- Graduate credits = 21

**BS Economics-Policy Track- Accelerated**

Major Core Requirements		
ECONOM 1014	Principles of Microeconomics	3
or ECONOM 1014H	Principles of Microeconomics-Honors	
ECONOM 1015	Principles of Macroeconomics	3
or ECONOM 1015H	Principles of Macroeconomics - Honors	
ECONOM 3271	Introduction to Applied Econometric Practice	3
ECONOM 4351	Intermediate Microeconomics	3
or ECONOM 4351H	Intermediate Microeconomics - Honors	
ECONOM 4353	Intermediate Macroeconomics	3
or ECONOM 4353W	Intermediate Macroeconomics - Writing Intensive	
ECONOM 4370	Applied Mathematics for Economics	3
ECONOM 4371	Introductory Econometrics	3

**Electives in Major**

At least 6 credits must be at the 4000-level or higher

At least 6 credits must come from a specified list of policy-focused economics courses(see below) Students in Accelerated program can substitute one of the MPA core or electives courses for one policy-focused economics elective		
ECONOM 3367W	Law and Economics - Writing Intensive	3
or ECONOM 3367	Law and Economics	
ECONOM 3940	Internship	1-3
ECONOM 4311	Labor Economics	3
or ECONOM 4311W	Labor Economics - Writing Intensive	
or ECONOM 7311	Labor Economics	
ECONOM 4315	Public Economics	3
or ECONOM 4315W	Public Economics - Writing Intensive	
ECONOM 4316	State and Local Finance	3
or ECONOM 7316	State and Local Finance	
ECONOM 4317	Urban Economics	3
or ECONOM 4317W	Urban Economics - Writing Intensive	
or ECONOM 7317	Urban Economics	
ECONOM 4340	Introduction to Game Theory	3
or ECONOM 7340	Introduction to Game Theory	
ECONOM 4345W	Economics of Education - Writing Intensive	3
or ECONOM 4345	Economics of Education	
or ECONOM 7345	Economics of Education	
ECONOM 4357W	Health Economics - Writing Intensive	3
or ECONOM 7357	Health Economics	
ECONOM 4846W	Economics of Discrimination - Writing Intensive	3
or ECONOM 7846	Economics of Discrimination	
ECONOM 4940	Internship in Economics	1-3

Complimentary fields courses taken from a selected list of Public Affairs courses(that includes the MPA courses listed below)-12 credits

**MPA Core Courses**

PUB_AF 8110	Introduction to Public and Nonprofit Management	3
PUB_AF 8170	Public Policy Processes and Strategies	3
PUB_AF 8180	Research Methods and Inquiry in Public Affairs I	3
PUB_AF 8181	Research Methods and Inquiry in Public Affairs II	3
PUB_AF 8210	Public Service and Democracy	3
PUB_AF 8211	MPA Capstone (Applied Project)	3

**Electives and Specialization Courses**

15

**Courses in Public and Nonprofit Management**

PUB_AF 8150	Collaborative Governance	3
PUB_AF 8160	Organizational Dynamics and Leadership	3
PUB_AF 7340	Regional and Economic Development Policy	3
PUB_AF 7540	Local Government Management	3
PUB_AF 8510	Public Budgeting and Taxation	3
PUB_AF 8530	Strategic Management of Public Service Organizations: People, Information and Money	3
PUB_AF 8280	Public Affairs Internship	3
PUB_AF 8720	Budgeting and Financial Management in the Nonprofit Sector	3

**Courses in Public Policy**

PUB_AF 8190	Economic Analysis for Public Affairs	3
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PUB_AF 8420	Public Program Evaluation	3
PUB_AF 7340	Regional and Economic Development Policy	3
PUB_AF 7175	Early Childhood Policy	3
PUB_AF 8171	Environmental Policy	3

### Semester Plan - Standard BS in Economics

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 (Arts and Science Diversity Requirement)	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 Lab	4	Behavioral Science from Arts and Science	3
		Second major, minor, certificate, or elective	1
<b>15</b>		<b>15</b>	

Second Year			
Fall	CR	Spring	CR
ECONOM 3251	3	ECONOM 4351	3
ECONOM 3271	3	ECONOM, 3000+ level	3
Second Language Alternative	3	Behavioral or Social Science, 2000+ level	3
Humanities, 2000+ level	3	Second Language Alternative	3
First Writing Intensive	3	Second major, minor, certificate, or elective	3
<b>15</b>		<b>15</b>	

Third Year			
Fall	CR	Spring	CR
ECONOM 4353	3	ECONOM 4371	3
ECONOM 4370	3	Second Language Alternative	3
Second Language Alternative	3	Complementary Field Course	3
Humanities from Arts and Science	3	Humanities	3
Complementary Field Course	3	Second major, minor, certificate, or elective	3
<b>15</b>		<b>15</b>	

Fourth Year			
Fall	CR	Spring	CR
ECONOM, 4000- level Writing Intensive	3	ECONOM, 4000- level	3
Complementary Field Course	3	Complementary Field Course	3
Second major, minor, certificate, or elective	3	Second major, minor, certificate, or elective	3
Second major, minor, certificate, or elective	3	Second major, minor, certificate, or elective	3

Second major, minor, certificate, or elective	3	Second major, minor, certificate, or elective	3
<b>15</b>		<b>15</b>	

Total Credits: 120

### Semester Plan - BS in Economics with Quantitative Track

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 (Arts and Science Diversity Requirement)	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 Lab	4	Behavioral Science from Arts and Science	3
		Second major, minor, certificate, or elective	1
<b>15</b>		<b>15</b>	

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
<b>15</b>		<b>15</b>	

Third Year			
Fall	CR	Spring	CR
ECONOM 4371	3	ECONOM, 3000+ level Writing Intensive	3
MATH 4140	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
<b>15</b>		<b>15</b>	

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 or Math 4000- or Stat 4000-	3
MATH 3000 or Math 4000- or Stat 4000-	3	Second Language Alternative	3

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Second major, minor, certificate, or elective	3 Humanities	3
	<b>15</b>	<b>15</b>

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**Total Credits: 120**