## 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. At least 21 credit hours in Economics must be completed in residence. In addition to the major core requirements, students must complete college and University graduation requirements (http://catalog.missouri.edu/academicdegreerequirements/universityrequirements/) including University general education requirements (http://catalog.missouri.edu/academicdegreerequirements/generaleducationrequirements/).

### BS Tracks in Economics

The BS Quantitative Track is a degree program for students who plan to attend graduate school in Economics or Finance, while the BS Applied Track is a program for students who want more analytical experience for their future career ambitions.

### Major Core Requirements for BS in Economics

#### Required Economics Coursework

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOM 1014 &amp; ECONOM 1015</td>
<td>Principles of Microeconomics and Principles of Macroeconomics</td>
<td>5-6</td>
</tr>
<tr>
<td>or ECONOM 1000</td>
<td>General Economics for Journalists</td>
<td></td>
</tr>
<tr>
<td>or ECONOM 1051H</td>
<td>General Economics - Honors</td>
<td></td>
</tr>
<tr>
<td>ECONOM 4351</td>
<td>Intermediate Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 4353</td>
<td>Intermediate Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 4370</td>
<td>Quantitative Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 4371</td>
<td>Introductory Econometrics (Stat 3500 is only an acceptable alternative for Applied Track students with prior department approval for earning a double or dual degree.)</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 3500</td>
<td>Introduction to Probability and Statistics II</td>
<td></td>
</tr>
</tbody>
</table>

#### Quantitative Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1100 &amp; MATH 1140</td>
<td>College Algebra and Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td>or MATH 1160</td>
<td>Precalculus Mathematics</td>
<td></td>
</tr>
</tbody>
</table>

#### Complementary Field Course - Quantitative Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1500</td>
<td>Analytic Geometry and Calculus I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 1700</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 2300</td>
<td>Calculus III</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4140</td>
<td>Matrix Theory</td>
<td>3</td>
</tr>
<tr>
<td>STAT 4750 &amp; STAT 4760</td>
<td>Introduction to Probability Theory and Statistical Inference</td>
<td>6</td>
</tr>
<tr>
<td>or STAT 4710 &amp; STAT 4510</td>
<td>Introduction to Mathematical Statistics and Applied Statistical Models I</td>
<td></td>
</tr>
<tr>
<td>MATH 3000</td>
<td>Introduction to Advanced Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 4110</td>
<td>Differential Equations</td>
<td></td>
</tr>
<tr>
<td>or STAT 4000+</td>
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</table>

### Complementary Field Courses - Applied Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1100</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 1160</td>
<td>Precalculus Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 1400 &amp; MATH 1300</td>
<td>Calculus for Social and Life Sciences I and Finite Mathematics</td>
<td>5-6</td>
</tr>
<tr>
<td>or MATH 1500</td>
<td>Analytic Geometry and Calculus I</td>
<td></td>
</tr>
<tr>
<td>STAT 2500</td>
<td>Introduction to Probability and Statistics I (or Stat 1200 or 1300 or 1400 AND Stat 2200)</td>
<td>3</td>
</tr>
<tr>
<td>or ECONOM 2371</td>
<td>Economic Data Analysis</td>
<td></td>
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### Foreign Language Alternative (for BS degree)

A student may elect to fulfill a special option area instead of taking a foreign 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 foreign language alternative is planned by the student with the Economics Academic Advisor and must be approved by the Director of Undergraduate Studies.

### Electives

Students must complete at least five (for the BA) or four (for the BS) of the following electives, with no more than two at the 3000 level, selected with the advisor and completed with a grade of C- or above. One of the chosen Economics Electives should be taken as Writing Intensive. Students who double or dual major will be eligible to waive one 3000 level Economics Elective course.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOM 3224</td>
<td>Introduction to International Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 3229</td>
<td>Money, Banking and Financial Markets</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 3367</td>
<td>Law and Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 4004</td>
<td>Topics in Economics- Social Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ECONOM 4311</td>
<td>Labor Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 4315</td>
<td>Public Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 4317</td>
<td>Urban Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 4320</td>
<td>History of Economic Thought</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 4326</td>
<td>Economics of International Trade</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 4329</td>
<td>The Banking System and the Money Market</td>
<td>3</td>
</tr>
<tr>
<td>ECONOM 4340</td>
<td>Introduction to Game Theory</td>
<td>3</td>
</tr>
</tbody>
</table>
### 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

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOM 1014</td>
<td>3 ECONOM 1015</td>
</tr>
<tr>
<td>MATH 1160</td>
<td>5 MATH 1500</td>
</tr>
<tr>
<td>American Government or History</td>
<td>3 ENGLISH 1000</td>
</tr>
<tr>
<td>Lab Science</td>
<td>4 Behavioral Science</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
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<tr>
<td><strong>Total CR</strong></td>
<td><strong>15</strong></td>
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#### Second Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOM 4351</td>
<td>3 ECONOM 4353</td>
</tr>
<tr>
<td>ECONOM 3000+ level elective</td>
<td>3 MATH 2300</td>
</tr>
<tr>
<td>MATH 1700</td>
<td>5 Foreign Language II (or alternative)</td>
</tr>
<tr>
<td>Foreign Language I (or alternative)</td>
<td>3-6 Behavioral or Social Science</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total CR</strong></td>
<td><strong>14-17</strong></td>
</tr>
</tbody>
</table>

#### Third Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOM 4371</td>
<td>3 ECONOM WI Elective</td>
</tr>
<tr>
<td>MATH 4140</td>
<td>3 STAT 4710 or 4750</td>
</tr>
<tr>
<td>Foreign Language III (or alternative)</td>
<td>3 Foreign Language Alternative IV or Elective</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Complementary Field Course</td>
<td>3 Elective</td>
</tr>
<tr>
<td><strong>Total CR</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

#### Fourth Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECONOM 4370</td>
<td>3 ECONOM 4000+ level elective</td>
</tr>
<tr>
<td>ECONOM 4000+ level elective</td>
<td>3 Approved Math/Statistics</td>
</tr>
<tr>
<td>STAT 4510 or 4760</td>
<td>3 Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>3 Elective</td>
</tr>
<tr>
<td>Elective</td>
<td>3 Elective</td>
</tr>
<tr>
<td><strong>Total CR</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Total Credits: 120-126