ECONOMICS, BACHELOR OF SCIENCE (B.S.) [COLLEGE OF HUMANITIES AND SCIENCES]

Undergraduate work in economics is excellent preparation for careers in business, government and teaching, as well as for graduate work in economics and professional schools such as law, public administration and medicine. Specialization in economics prepares students for careers that emphasize analytical thinking, a broad understanding of the economy and business organizations and the proper choice of policies by governments and business enterprises. Because of their analytical, quantitative and decision-making skills, students who major in economics are sought after for a wide array of management and analyst positions.

Economics majors are strongly encouraged to take additional courses in statistics and mathematics, especially if they intend to pursue either careers as practicing economists or graduate study in economics or business. Recommended mathematics courses include one or more of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 201</td>
<td>Calculus with Analytic Geometry II</td>
<td>4</td>
</tr>
</tbody>
</table>

Recommended statistics courses include one or more of the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>STAT 314</td>
<td>Applications of Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

Students should consult with their advisers to determine which of these courses fit their particular interests and backgrounds.

Mission

The mission of the B.S. in Economics is to provide undergraduate students with economic knowledge and skills which will enable them to compete successfully in changing regional, national and global economic environments.

Learning goals

The goal of the economics curriculum is to impart critical-thinking skills, communication skills and quantitative proficiency to its students.

Student learning outcomes

- Students will solve key microeconomic problems.
- Students will solve key macroeconomic problems.
- Students will be able to interpret and analyze data and express economic relationships using graphs, equations and words.
- Students will demonstrate strong oral and written communication skills.
- Students will be able to employ economic models and data to analyze questions of economic significance.

Declaration of major and transfer policies

Admission to the B.S. in Economics program requires a minimum GPA of 2.5. Transfer students who have not yet earned VCU credit must have earned a minimum overall GPA of 2.5 at their previous institution.

Continuing students must have a minimum VCU GPA of 2.5 to enroll in the economics program. To be admitted to the program a student must have earned a minimum grade of C in ECON 210 and ECON 211 or their equivalents.

In addition to meeting the general requirements of the university and the College of Humanities and Sciences, transfer students who plan to enroll in the economics major must comply with the following requirements:

1. Incoming transfer students must have a minimum cumulative GPA of 2.5 from all accredited institutions.
2. Only courses completed at an accredited four-year university will be considered for acceptance to fulfill major requirements at the 300-level or above. Courses completed at an accredited two-year institution will be considered for acceptance to fulfill major requirements at the 200-level.
3. Transfer credits may be applied to no more than 12 hours in the major requirements at the 300-level or above.

Special requirements

The curriculum requires 33 credits of ECON courses. Students also must take MATH 200 or BUSN 212, as well as STAT 210 as collateral requirements at the 200-level. Students may need to take additional mathematics courses to satisfy the prerequisites for MATH 200 or BUSN 212.

Degree requirements for Economics, Bachelor of Science (B.S.)

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<tr>
<th>Course</th>
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<tr>
<td>STAT 210</td>
<td>Applications of Statistics</td>
<td>4</td>
</tr>
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</table>

General education (http://bulletin.vcu.edu/undergraduate/undergraduate-study/general-education-curriculum/)

Select 30 credits of general education courses in consultation with an adviser.

Major requirements

- Major core requirements
  - ECON 300 Contemporary Economic Issues 3
  - ECON 301 Microeconomic Theory 3
  - ECON 302 Macroeconomic Theory 3

- Additional major requirements
  - ECON 211 Principles of Macroeconomics 3
  - ECON 431 Labor Economics 3
  - or ECON 441 Experimental Economics 3
  - or ECON 442 Economic Growth 3
  - or ECON 461 Monetary Policy Seminar 3
  - or ECON 489 Senior Seminar in Economics 3

- Major electives
  - Select ECON (300-level or 400-level or 501) 15

Ancillary requirements

- ECON 210 Principles of Microeconomics (satisfies general education BOK for social/behavioral sciences and AOI for global perspectives) 3
HUMS 202  Choices in a Consumer Society  1

MATH 200  Calculus with Analytic Geometry I (either satisfies general education quantitative foundations)  4

or BUSN 212  Business Problem Solving and Analysis

STAT 210  Basic Practice of Statistics  3

or SCMA 301  Business Statistics I

Experiential fine arts 1  1-3

Foreign language through the 102 level (by course or placement)  0-6

Open electives
Select any course.  46-54

Total Hours  120

Course offered by the School of the Arts

The minimum number of credit hours required for this degree is 120.

What follows is a sample plan that meets the prescribed requirements within a four-year course of study at VCU. Please contact your adviser before beginning course work toward a degree.

Freshman year

Fall semester

MATH 151  Precalculus Mathematics (or a higher MATH course; any of these satisfies general education quantitative foundations)  4

or MATH 200 or BUSN 212  Calculus with Analytic Geometry I or Business Problem Solving and Analysis

UNIV 101  Introduction to the University  1

UNIV 111  Focused Inquiry I (satisfies general education UNIV foundations)  3

Play course video for Focused Inquiry I

Experiential fine arts 1  1-3

General education course  3

General education course  3

Term Hours:  15-17

Spring semester

ECON 210  Principles of Microeconomics (satisfies general education BOK for social/behavioral sciences and AOI for global perspectives)  3

HUMS 202  Choices in a Consumer Society  1

STAT 210  Basic Practice of Statistics  3

UNIV 112  Focused Inquiry II (satisfies general education UNIV foundations)  3

Play course video for Focused Inquiry II

General education course  3

Open elective  2

Term Hours:  15

Sophomore year

Fall semester

ECON 211  Principles of Macroeconomics  3

UNIV 200  Advanced Focused Inquiry: Literacies, Research and Communication (satisfies general education UNIV foundations)  3

Foreign language 101  3

General education course  3

Open elective  3

Term Hours:  15

Spring semester

ECON 300  Contemporary Economic Issues  3

Foreign language 102  3

General education course  3

Open elective or MATH 200 or BUSN 212  3-4

Open elective  3

Term Hours:  15-16

Junior year

Fall semester

ECON 301  Microeconomic Theory  3

Major elective  3

Open electives  9

Term Hours:  15

Spring semester

ECON 302  Macroeconomic Theory  3

Major elective  3

Open electives  9

Term Hours:  15

Senior year

Fall semester

ECON 431  Labor Economics

or Experimental Economics

or Economic Growth

or Monetary Policy Seminar

or Senior Seminar in Economics

or ECON 461 or ECON 489  3

Major elective  3

Open electives  9

Term Hours:  15

Spring semester

Major electives  6

Open electives  9

Term Hours:  15

Total Hours:  120-123

1

Select general education courses in consultation with an adviser.

The minimum number of credit hours required for this degree is 120.
**Accelerated B.S. and M.A.**

The accelerated B.S. and M.A. program allows qualified students to earn both the B.S. and M.A. in economics in a minimum of five years by completing approved graduate courses during the senior year of their undergraduate program. Students in the program may count up to 12 hours of 600-level graduate courses toward both the B.S. and M.A. degrees. Thus, the two degrees may be earned with a minimum of 138 credits rather than the 150 credits necessary if the two degrees are pursued separately.

Students holding these degrees will be more competitive when seeking positions requiring the acquisition, manipulation and analysis of data. While undergraduates are required to obtain some data skills, the M.A. program is far more focused in this area with a course in mathematical economics and three econometrics classes. Furthermore, two of these econometrics classes require students to gather data, perform analysis and report on that analysis. Such practical skills are highly valued in the labor market.

**Entrance to the accelerated program**

Interested undergraduate students should consult with their adviser as early as possible to receive specific information about the accelerated program, determine academic eligibility and submit (no later than two semesters prior to graduating with a baccalaureate degree, that is, before the end of the spring semester of their junior year) an Accelerated Program Declaration Form to be approved by the graduate program director. Limited spaces may be available in the accelerated program. Academically qualified students may not receive approval if capacity has been reached.

Minimum qualifications for entrance to this accelerated program include completion of 85 undergraduate credit hours including ECON 300, ECON 301 and ECON 302; an overall GPA of 3.25; and a GPA of 3.25 in economics and quantitative course work. Students who do not meet the minimum GPA requirements may submit GRE scores to receive further consideration. Additional information is available from the faculty adviser to the economics M.A. program.

Once enrolled in the accelerated program, students must meet the standards of performance applicable to graduate students as described in the "Satisfactory academic progress (http://bulletin.vcu.edu/academic-regis/grad/satisfactory-academic-progress/)") section of the Graduate Bulletin, including maintaining a 3.0 GPA. Guidance to students admitted to the accelerated program is provided by both the undergraduate economics adviser and the faculty adviser to the graduate program.

**Admission to the graduate program**

Entrance to the accelerated program enables the student to take the approved shared courses that will apply to the undergraduate and graduate degrees. However, entry into an accelerated program via an approved Accelerated Program Declaration Form does not constitute application or admission into the graduate program. Admission to the graduate program requires a separate step that occurs through a formal application to the master’s program, which is submitted through Graduate Admissions no later than a semester prior to graduation with the baccalaureate degree, that is, before the end of the fall semester of the senior year. In order to continue pursuing the master’s degree after the baccalaureate degree is conferred, accelerated students must follow the admission to graduate study requirements outlined in the VCU Bulletin.

**Degree requirements**

The Bachelor of Science in Economics degree will be awarded upon completion of a minimum of 120 credits and the satisfactory completion of all undergraduate degree requirements as stated in the Undergraduate Bulletin. A maximum of 12 graduate credits at the 600 level may be taken prior to completion of the baccalaureate degree. These graduate credits substitute for required major electives or open elective credits for the undergraduate degree. These courses are shared credits with the graduate program, meaning that they will be applied to both undergraduate and graduate degree requirements.

Students in the accelerated program are also required to take ECON 501 as an undergraduate major elective or open elective.

The graduate economics courses that may be taken as an undergraduate, once a student is admitted to the program, are:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ECON 604</td>
<td>Advanced Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 612</td>
<td>Econometrics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 614</td>
<td>Mathematical Economics</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Hours</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

Students will choose an elective in consultation with the faculty adviser to the M.A. program to serve as an elective for both programs.

**Recommended course sequence/plan of study**

What follows is the recommended plan of study for students interested in the accelerated program beginning in the fall of the junior year prior to admission to the accelerated program in the senior year.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 300</td>
<td>Contemporary Economic Issues</td>
<td>3</td>
</tr>
<tr>
<td>ECON 301</td>
<td>Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>Experiential fine arts</td>
<td></td>
<td>1-3</td>
</tr>
<tr>
<td>Open electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Term Hours:</td>
<td></td>
<td>16-18</td>
</tr>
<tr>
<td>Spring semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 302</td>
<td>Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>Open electives</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Term Hours:</td>
<td></td>
<td>24</td>
</tr>
<tr>
<td>Summer semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 614</td>
<td>Mathematical Economics</td>
<td>3</td>
</tr>
<tr>
<td>Term Hours:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Senior year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 431</td>
<td>Labor Economics</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 441</td>
<td>Experimental Economics</td>
<td></td>
</tr>
<tr>
<td>or ECON 461</td>
<td>Monetary Policy Seminar</td>
<td></td>
</tr>
<tr>
<td>or ECON 489</td>
<td>Senior Seminar in Economics</td>
<td></td>
</tr>
</tbody>
</table>
ECON 501  Introduction to Econometrics  3

Open electives  7-10

Term Hours:  13-16

Spring semester

ECON 604  Advanced Microeconomic Theory  3

ECON 612  Econometrics  3

M.A. elective  3

Open electives  6

Term Hours:  15

Fifth year

Fall semester

ECON 607  Advanced Macroeconomic Theory  3

ECON 642  Panel and Nonlinear Methods in Econometrics  3

M.A. elective  3

Term Hours:  9

Spring semester

ECON 641  Econometric Time-series Analysis  3

M.A. electives  6

Term Hours:  9

ECON 101. Introduction to Political Economy. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Seminar on the development of critical thought and economic analysis of policy issues. Focus is on how policy choices affect society and the individual, the economic methodology that guides policy choices, and the institutional and political environments within which policy is derived. Issues cover a broad range of topics including environmental issues, tax policy, inflation expectations, unemployment, foreign trade and the effectiveness of fiscal and monetary policies. Crosslisted as: INTL 102.

ECON 202. Inequality in America. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Today economic inequality in the United States is higher than at any point in the past century. This course is an introduction to the latest research on various aspects of inequality, including: What are the origins of inequality in employment, income, wealth and health? How is inequality related to age, sex, race, education, geography and technology? How does equality of opportunity differ from equality in outcomes? What are the consequences of inequality for individuals, families and the economy as a whole? Which policies would have the largest impact on inequality, and what will happen to inequality in the future? As students explore these questions, the class will also cover important scientific techniques which will improve the ability to read data, test theories and make predictions. These will include key economic concepts such as scarcity, opportunity costs, prices, supply and demand, equilibrium, and compensating differentials.

ECON 203. Introduction to Economics. 3 Hours.
Semester course; 3 lecture hours (delivered online, face-to-face or hybrid). 3 credits. A survey of economic principles, institutions and problems. The course is designed to provide basic economic understanding for students who do not expect to major in economics or in the School of Business. Not applicable for credit toward economics and business majors. Students may receive credit toward graduation for only one of the following three courses: ECON 203, ECON 205 or ECON 210.

ECON 205. The Economics of Product Development and Markets. 3 Hours.
Semester course; 3 lecture hours. 3 credits. An introduction to some of the fundamental economic concepts necessary to effectively operate in today's marketplace. Basic elements of microeconomics, net present value analysis and market strategy will be covered in class. The goal is to provide students with a better understanding of how to approach business problems and of proven problem-solving techniques. Intended for engineering students. Students may receive credit toward graduation for only one of the following three courses: ECON 203, ECON 205 or ECON 210.

ECON 210. Principles of Microeconomics. 3 Hours.
Semester course; 3 lecture hours (delivered online, face-to-face or hybrid). 3 credits. A course designed to acquaint the student with a theoretical and practical understanding of the economic institutions and problems of the American economy with a focus on microeconomics. Students may receive credit toward graduation for only one of the following three courses: ECON 203, ECON 205 or ECON 210.

ECON 211. Principles of Macroeconomics. 3 Hours.
Semester course; 3 lecture hours (delivered online, face-to-face or hybrid). 3 credits. Prerequisite: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210. A course designed to acquaint the student with a theoretical and practical understanding of the economic institutions and problems of the American economy with a focus on macroeconomics.

ECON 291. Topics in Economics. 1-3 Hours.
Variable hours. Variable credit. Maximum of 3 credits per topic. Prerequisite: permission of instructor. An in-depth study of selected business topics. Graded as pass/fail at the option of the department.

ECON 300. Contemporary Economic Issues. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210; and ECON 211. Students will learn to think critically about current policy issues using basic economic principles. Communication skills will be developed through presenting, discussing and debating alternative positions in class. Students will work in teams to outline the basic economic incentives and the direct and indirect costs and benefits associated with different policy actions. Through teamwork students will practice leadership skills and methods to manage group dynamics. Topics will vary by semester and may include the economics of discrimination, the environment, health care, cultural arts, education, business ethics, fiscal policy, monetary policy, globalization, inequality and immigration.

ECON 301. Microeconomic Theory. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210; and BUSN 212* or MATH 200. Analysis of the principles that govern production, exchange and consumption of goods and services. Topics include demand analysis, production and cost theory, price and output determination, theory of markets and distribution theory. *Formerly MGMT 212, SCMA 212.

ECON 302. Macroeconomic Theory. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210; ECON 211; and BUSN 212* or MATH 200. A general survey of national income analysis and macroeconomic theory. Detailed study of public policies affecting price levels, employment, economic growth and the balance of payments. *Formerly MGMT 212, SCMA 212.
ECON 303. Managerial Economics. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210; ECON 211; and BUSN 212* or MATH 200. This course is restricted to students who have completed at least 54 credit hours (junior standing). Application of tools of economic analysis to allocation problems in profit and nonprofit organizations. Models for evaluating revenue, production, cost and pricing will be presented. Emphasis on developing decision rules for turning data into information for solving problems. *Formerly MGMT 212, SCMA 212.

ECON 305. Public Finance. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisite: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210. An economic analysis of federal, state and local government budgeting, revenue sources and expenditures.

ECON 307. Money and Banking. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisite: ECON 211. A study of money, financial markets and the financial structure with emphasis on commercial banks and the Federal Reserve System. Relationships between economic activity and money supply are introduced.

ECON 312. E-commerce and Markets for Information Goods. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisite: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210. This course surveys the ways that information and emerging information technologies affect market organization and market efficiency. Competitive strategies and regulatory policy for information markets also are considered. Topics include network effects, first mover advantages, auctions, price discrimination and organizational structure.

ECON 313. Economics of Transportation. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisite: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210. An economic analysis of the transportation industry with special emphasis on regulation, public policy and urban transportation.

ECON 315. Economic Development. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210; ECON 211. An introduction to the process of economic development. Surveys development theory and experiences of underdeveloped countries of Africa, Asia, Latin America and the Caribbean and of developed countries. Explores obstacles to development and policies and tools for stimulating economic development. Crosslisted as: INTL 315.

ECON 321. Urban Economics. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisite: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210. An introduction to urban economics, with an emphasis on the economics of agglomeration and the role of externalities in the urban economy. Economic analysis of the provision of urban public services and urban public financing, especially in politically fragmented areas. Crosslisted as: URSP 321.

ECON 325. Environmental Economics. 3 Hours.
Semester course; 3 lecture hours. 3 credits. This course is restricted to students who have completed at least 54 credit hours (junior standing). The application of economic analysis to externalities such as air and water pollution, pesticide control, land use planning and other environmental issues. The role of cost/benefit analysis in the decision-making process is developed. Efficiency and equity issues are evaluated.

ECON 329. International Economics. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210; ECON 211. An analysis of economic and political influences on exports and imports, balance of payments, foreign investment, exchange rates and international monetary systems. Crosslisted as: INTL 329.

ECON 333. Behavioral Economics. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisite: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210. Identifies when behavior systematically violates mainstream models and provides alternative behavioral models which are psychologically and empirically plausible. Discusses a variety of violations including endowment effects, framing, dynamic inconsistency and the winner's curse.

ECON 338. Game Theory. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisite: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210. Analyzes strategic situations using game theory. Applies the analysis to a variety of settings and questions. Develops an understanding of the uses and limitations of the analysis.

ECON 402. Business Cycles and Forecasting. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210; ECON 211. An analysis of repetitive variations in business activity. The measurement and analysis of economic fluctuations and how they affect the business environment. Stresses modern forecasting techniques.

ECON 403. Introduction to Mathematical Economics. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210; ECON 211; and BUSN 212* or MATH 200. Enrollment is restricted to students who have completed at least 54 credit hours (junior standing). The application of mathematical techniques to economic theory and economic models. *Formerly MGMT 212, SCMA 212.

ECON 419. History of Economic Thought. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210; ECON 211. A survey of the ideas of major economic contributors to modern economic thought. Theories of value, growth and distribution from the 18th through the 20th centuries will be presented.

ECON 421. Government and Business. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisite: ECON 203 with a minimum grade of B, ECON 205 with a minimum grade of B or ECON 210. The application of economic analysis to the behavior of business, industry and government regulation. Topics include the causes and exercise of monopoly power, antitrust enforcement, public utilities and industry studies.

ECON 431. Labor Economics. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 300, 301 and 302; and SCMA 301*, STAT 210, STAT 212 or PSYC 214. Enrollment is restricted to economics majors with junior standing or with permission of the department chair. Analysis of labor markets and institutions to gain an understanding of the process of wage and employment determination. Both historic and current topics are included. *Formerly MGMT 301.
ECON 441. Experimental Economics. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 300, ECON 301 and ECON 302; and SCMA 301*, STAT 210, STAT 212 or PSYC 214. Enrollment is restricted to economics majors with junior standing or with permission of the department chair. Students will learn about the leading models of decision making and human behavior in markets. The course will focus on using experimental methods to test the models' hypotheses. Students will learn how to design experiments, collect experimental data, and how to examine the data and interpret the results. *Formerly MGMT 301.

ECON 442. Economic Growth. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 300, ECON 301 and ECON 302; and SCMA 301*, STAT 210, STAT 212 or PSYC 214. Enrollment is restricted to economics majors with junior standing or with permission of the department chair. Explores determinants of cross-country income differences using economic models, economic history and data analysis. Analyzes factors that influence productivity growth and diffusion of technology between countries. *Formerly MGMT 301.

ECON 461. Monetary Policy Seminar. 3 Hours.
Semester course; 3 lecture/seminar hours. 3 credits. Prerequisites: ECON 300, ECON 301 and ECON 302; and SCMA 301*, STAT 210, STAT 212 or PSYC 214. Enrollment is restricted to economics majors with junior standing or with permission of the department chair. Students work individually and in teams to formulate and justify a monetary policy recommendation. Students will base their recommendation on an economic analysis of current conditions and their prediction regarding the future state of the economy. The class is organized around discussions and presentations, with short lectures as needed. *Formerly MGMT 301.

ECON 489. Senior Seminar in Economics. 3 Hours.
Semester course; 3 lecture hours. 3 credits. Prerequisites: ECON 300, ECON 301 and ECON 302; SCMA 301*, STAT 210, STAT 212 or PSYC 214. Enrollment is restricted to students with junior standing. Analysis of economic theory and problems. Students will study a few topics in depth, focusing on understanding the current research, critically analyzing controversial issues and using data to investigate competing claims. *Formerly MGMT 301.

ECON 491. Topics in Economics. 1-3 Hours.
Semester course; variable hours. Variable credit. Maximum of 3 credits per topics course; maximum total of 6 credits for all topics courses. Prerequisite: junior standing. An in-depth study of a selected economic topic, to be announced in advance.

ECON 492. Independent Study in Economics. 1-3 Hours.
Semester course; 1-3 credits. Maximum total of 3 credits. Prerequisites: junior or senior standing as an economics major and approval of adviser and department chair prior to course registration. Intensive study under supervision of a faculty member in an area not covered in depth or contained in the regular curriculum.

ECON 493. Internship in Economics. 1-3 Hours.
Semester course; the student is expected to work at the site 15-20 hours per week. 1-3 credits. Prerequisites: junior standing, a minimum of 3.0 GPA in economics courses, at least 15 economics credits and permission of the department chair. Intention to enroll must be indicated to the instructor prior to or during registration for semester of credit. The internship is designed to give students practical experience in an appropriate supervised environment in the public or private sector. Graded as pass/fail.