The Department of Economics offers the following undergraduate programs. Specific requirements for these programs are listed within this Department of Economics section in the following order:

**Undergraduate Major (B.A.)**
- Economics (p. 1)

**Minor**
- Economics-Liberal Arts (p. 3)

**Program Certificates**
- Health Care Administration for Business Majors (p. 3)
  (also listed in College of Business and Department of Health, Recreation and Community Services)
- Health Care Administration for Non-Business Majors (p. 4)
  (also listed in College of Business and Department of Health, Recreation and Community Services)

1. A student must complete ECON 1041, ECON 1051, ECON 2112, and ECON 2122 with at least a C- in each course whether taken at UNI or an institution from which transfer credit for these courses is accepted; must earn a 2.20 cumulative grade point average at UNI; must earn an overall 2.20 grade point average in ACCT xxxx, MKTG xxxx, MGMT xxxx, FIN xxxx, and ECON xxxx courses taken at UNI.

2. ECON 1011 counts toward an Economics major only in the Business Economics and Applied Economic Analysis emphases and does not count toward the minor.

3. ECON 2090 counts toward an Economics major only in the Business Economics emphasis and does not count toward the minor.

4. ECON 1031 does not count toward the Economics major or minor.

5. ECON 1041 and ECON 1051 are minimum prerequisites for all 2000/3000/4000-level courses, except ECON 2090, ECON 2140, ECON 3125, and ECON 3371.

6. It is recommended that ECON 2112 and ECON 2122 be taken before other advanced courses in Economics.

7. Not more than one emphasis may be declared in economics.

The Economics Department may impose additional admission requirements for students wishing to declare a minor or a second College of Business major. Eligibility to declare a minor or a second College of Business major is based on competitive GPA and space availability. For more information on these policies, check with your advisor in UNI Business Advising in CBB 5.

**Bachelor of Arts Degree Programs**

**Economics Major**
The Economics major requires a minimum of 120 total hours to graduate. This total includes UNIFI/General Education requirements and the following specified major requirements, plus electives to complete the minimum of 120 hours.

**Required**
- Business Administration, Interdepartmental:
  - BUSINESS 1000 Introductory Seminar for Business Professionals 0
  - BUSINESS 2000 Business Professionals in Training 0
- Economics:
  - ECON 1041 Principles of Macroeconomics * 3
  - ECON 1051 Principles of Microeconomics 3
  - ECON 2112 Intermediate Microeconomic Theory 3
  - ECON 2122 Intermediate Macroeconomic Theory 3
  - ECON 3373/5373 Introduction to Econometrics 3
- Mathematics:
  - STAT 1772 Introduction to Statistical Methods * 3
- Emphasis requirements (students choose only one area of emphasis) 21-42

**Total Hours** 39-60

* Course will also satisfy the Quantitative Reasoning requirement in the UNIFI/General education program.

**Emphases:**

1. **General Economics**

**Required**
- Economics:
  - ECON 1011 Statistics for Business Analytics 3
  - Select one of the following 3
    - ENGLISH 1005 College Writing and Research
    - PHIL 1050 The Art of Critical Thinking and Writing
    - UNIV 1010 First-Year Cornerstone: Integrated Communication II
- Economics Electives:
  - Electives: 1000/2000/3000/4000-level economics courses (except ECON 1011, ECON 1031, and ECON 2090) 12
  - Select one of the following 3
    - Accounting:
      - ACCT 2120 Principles of Financial Accounting
    - Economics:
      - any 1000/2000/3000/4000-level economics course (except ECON 1011, ECON 1031, and ECON 2090)
Department of Economics

Geography:
- GEOG 3110 Economic Geography

Management:
- MGMT 2080 Introduction to Information Systems
- MGMT 3100 Legal and Social Environment of Business
- MGMT 3101 Business Law

Marketing:
- MKTG 2110 Principles of Marketing

Political Science:
- POL AMER 1048 Current and Emerging Issues in Public Administration
- POL AMER 2147 Law, Politics, and Society
- POL INTL 3119 Politics of the Global Economy
- POL INTL 3125 Politics of International Development

Total Hours: 21

2. Quantitative Techniques

Required
Mathematics:
- MATH 1420 Calculus I 4
- MATH 1421 Calculus II 4
- MATH 2422 Calculus III 4
- MATH 2500 Linear Algebra for Applications 3
- MATH 2900 Discrete and Argumentative Mathematics 3
- MATH 3751 Probability and Statistics 3

Economics Electives:
Electives: 1000/2000/3000/4000-level economics courses (except ECON 1011, ECON 1031, ECON 2090, and ECON 3077) 12
Select two of the following 6-7
- ACCT 2120 Principles of Financial Accounting

Computer Science:
- CS 1510 Introduction to Computing

Economics:
- any 1000/2000/3000/4000-level economics course (except ECON 1011, ECON 1031, and ECON 2090)

English Literature and Language
- ENGLISH 1005 College Writing and Research

Finance
- FIN 3130/5130 Corporate Finance

Management
- MGMT 2080 Introduction to Information Systems

Marketing
- MKTG 2110 Principles of Marketing

Philosophy:
- PHIL 1030 Elementary Logic
- PHIL 1050 The Art of Critical Thinking and Writing

Total Hours: 21

3. Business Economics (42 hours)

Students who select this emphasis must satisfy the College of Business admission requirements before they can officially declare their major. For more information on these policies, check with your advisor in UNI Business Advising in CBB 5. Prior to completion of the admission requirements, students may sign an intent to major in Economics/Business Economics and be classified as a prospective (pre)major. Pre-Economics/Business Economics majors may enroll in lower division (below 2000-level) business courses only. Enrollment in upper division (3000/4000-level) business courses and MKTG 2110 requires satisfactory completion of the College of Business admission requirements and any course prerequisites.

Economics/Business Economics majors may declare a double major, and/or major and minor within the College of Business, subject to the regulations of those College of Business departments affected. Economics/Business Economics majors minoring within the College of Business must select minors designated for business majors.

Required business core

Accounting:
- ACCT 2120 Principles of Financial Accounting 3
- ACCT 2130 Principles of Managerial Accounting 3

Marketing:
- MKTG 2110 Principles of Marketing 3

Management:
- MGMT 2080 Introduction to Information Systems 3
- MGMT 3100 Legal and Social Environment of Business 3
- MGMT 3154 Operations Management 3
- MGMT 3965/5965 Organizational Behavior 3
- MGMT 4175 Strategic Management 3

Finance:
- FIN 3130/5130 Corporate Finance 3

Economics:
- ECON 2090 Decision Analytics 3
- ECON 1011 Statistics for Business Analytics 3

Economics Electives:
Electives: 1000/2000/3000/4000-level economics courses (except ECON 1011, ECON 1031, and ECON 2090) 9

Total Hours: 42

4. Applied Economic Analysis

REQUIRES COMPLETION OF A MATHEMATICS MAJOR, ANY EMPHASIS
### Required

<table>
<thead>
<tr>
<th>Department</th>
<th>Course</th>
<th>Course Description</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Accounting:</td>
<td>ACCT 2120</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
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<tr>
<td>Management:</td>
<td>MGMT 2080</td>
<td>Introduction to Information Systems</td>
<td>3</td>
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<tr>
<td>Finance:</td>
<td>FIN 3130/5130</td>
<td>Corporate Finance</td>
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<tr>
<td></td>
<td>FIN 3160/5160</td>
<td>Principles of Investments</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<td>3</td>
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<tr>
<td>FIN 3050</td>
<td>Risk Management and Insurance</td>
<td></td>
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<tr>
<td>FIN 3065/5065</td>
<td>Fixed Income Analysis</td>
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<tr>
<td>FIN 3135</td>
<td>Intermediate Financial Management</td>
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#### Economics Electives:
- Electives: 1000/2000/3000/4000-level economics courses (except ECON 1011, ECON 1031, and ECON 2090) 6

**Total Hours**: 21

### Minors

#### Economics Minor-Liberal Arts

<table>
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<th>Required</th>
<th>Course</th>
<th>Course Description</th>
<th>Hours</th>
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<tr>
<td>ECON 1041</td>
<td>Principles of Macroeconomics</td>
<td>*</td>
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<tr>
<td>ECON 1051</td>
<td>Principles of Microeconomics</td>
<td></td>
<td>3</td>
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<tr>
<td>ECON 2112</td>
<td>Intermediate Microeconomic Theory</td>
<td>**</td>
<td>3</td>
</tr>
<tr>
<td>or ECON 2122</td>
<td>Intermediate Macroeconomic Theory</td>
<td></td>
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</tbody>
</table>

Electives: 1000/2000/3000/4000-level economics courses. May include the other Intermediate course. ECON 1011, ECON 1031, and ECON 2090 do not count towards the Minor.

**Total Hours**: 18

* Course will also satisfy the Quantitative Reasoning requirement in the UNIFI General education program.

** It is recommended that either ECON 2112 or ECON 2122 be taken before taking other advanced courses in economics.

Available to all UNI majors, except Economics majors.

**Note:** ECON 1041 and ECON 1051 are prerequisites for all 2000/3000/4000-level economics courses except for ECON 1001, ECON 2140, ECON 3125, and ECON 3371.

### Program Certificates

The University of Northern Iowa makes available, in addition to traditional programs, the opportunity for students to earn program certificates. Program certificates provide an alternative to programs leading to a degree, a major, or a minor; they certify that an individual has completed a program approved by the university. For information on the following program certificates, contact the Department of Economics or the Office of the Registrar, which serves as the centralized registry.

#### Certificate in Health Care Administration for Business Majors

The interdisciplinary Health Care Administration certificate for Business Majors includes courses which develop basic business skills for students desiring business careers in health care. Both nonprofit and for-profit health institutions such as clinics, hospitals, insurance companies, medical offices, and long-term care facilities require employees with business skills. Business professionals manage employees, manage finances, raise funds, reduce and manage risk, work with or for insurance companies, and seek ways to provide effective and cost-efficient care. Requires completion of any business major.

**Required:**
- Accounting: ACCT 2120 Principles of Financial Accounting 3
- Economics: ECON 2140 Health Economics 3
- Public Health and Education:
  - PH 1101 or CAP 3160 Introduction to Public Health 3
  - PH 3640/5640 Worksite Health Promotion 3
- Electives (one of the following): 3
  - ECON 1001 *Economics of Social Issues*
  - ECON 2112 Intermediate Microeconomic Theory
  - ECON 3217/5217 Economics of Labor Markets
  - ECON 3371 Economic and Business Forecasting
  - POL AMER 1048 **Current and Emerging Issues in Public Administration**
- Electives (two of the following): 6
  - Anthropology: ANTH 3102/5102 Culture, Disease, and Healing

**Capstone courses:**
- CAP 3173/RELS 3510/PHIL 3510 Bio-Medical Ethics
- CAP 3194/RELS 3110/PHIL 3110 Perspectives on Death and Dying

**Criminology:**
- CRIM 3369 Drugs and Society **

**Family Services:**
- FAM SERV/GERO 3161 Families, Alzheimer's and Related Dementias

**Finance:**
- FIN 3050 Risk Management and Insurance
### Department of Economics

**Gerontology:**
- GEROFAM SERV 2111 Families and End of Life Issues
- GEROFAM SERV 4170/5170 Long Term Care Administration

**Philosophy:**
- PHIL/RELS 3110 Perspectives on Death and Dying

**Psychology:**
- PSYCH 3303/5303 Health Psychology **

**Public Health and Education:**
- PH 2630 Aging and Health
- PH 2620 Stress and Coping
- PH 3320/5320 Global Service Mission
- PH 2530 Introduction to Women's Health
- PH 3330/5330 Minority Health
- PH 3340/5340 International Health
- PH 3720/5720 Environmental and Occupational Health Regulations

**Sociology:**
- SOC 3035/5035 Social Gerontology **
- SOC 3086/5086 Medical Sociology **

**Total Hours** 21

* Course can be used to satisfy the Responsibility requirement in the UNIFI/General Education program.

** The following courses have additional prerequisites:
- ANTH 3102/5102 has prerequisite of SOC 1000 or ANTH 1002. SOC 1000 can be used to satisfy the Human Condition - Domestic requirement in the UNIFI/General Education program. ANTH 1002 can be used to satisfy the Human Condition - Global requirement in the UNIFI/General Education program.
- CRIM 3369 has prerequisite of SOC 1000 or SOC 1060; CRIM 2025, SOC 1000 can be used to satisfy the Human Condition (Domestic) requirement in the UNIFI/General Education program.
- PSYCH 3303/5303 has prerequisite of PSYCH 1001. PSYCH 1001 can be used to satisfy the Human Condition (Domestic) requirement in the UNIFI/General Education program.
- SOC 3035/5035 and SOC 3086/5086 have prerequisite of SOC 1000 or SOC 1060. SOC 1000 and SOC 1060 can be used to satisfy the Human Condition (Domestic) requirement in the UNIFI/General Education program.

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### Certificate in Health Care Administration for Non-Business Majors

The interdisciplinary Health Care Administration certificate for Non-Business majors includes courses which develop basic business skills for students desiring business careers in health care. Both nonprofit and for-profit health institutions such as clinics, hospitals, insurance companies, medical offices, and long-term care facilities require employees with business skills. Business professionals manage employees, manage finances, raise funds, reduce and manage risk, work with or for insurance companies, and seek ways to provide effective and cost-efficient care.

**Required:**

**Accounting:**
- ACCT 2120 Principles of Financial Accounting 3

**Economics:**
- ECON 1031 Introduction to Business Economics 3
- or ECON 1041 Principles of Macroeconomics 3
- ECON 2140 Health Economics 3

**Public Health and Education:**
- PH 1101 Introduction to Public Health 3
- or CAP 3160 Community and Public Health 3
- PH 3640/5640 Worksite Health Promotion 3

**Elective(s) from the following (select one if major or minor requires no economics; select two if major or minor requires economics):**

**Anthropology:**
- ANTH 3102/5102 Culture, Disease, and Healing *

**Capstone courses:**
- CAP 3173/RELS 3510/PHIL 3510 Bio-Medical Ethics
- CAP 3194/RELS 3110/PHIL 3110 Perspectives on Death and Dying

**Criminology:**
- CRIM 3369 Drugs and Society *

**Family Services:**
- FAM SERV/GEROFAM SERV 3161 Families, Alzheimer's and Related Dementias

**Finance:**
- FIN 3050 Risk Management and Insurance

**Gerontology:**
- GEROFAM SERV 2111 Families and End of Life Issues
- GEROFAM SERV 4170/5170 Long Term Care Administration

**Philosophy:**
- PHIL/RELS 3110 Perspectives on Death and Dying

**Political Science:**
- POL AMER 1048 Current and Emerging Issues in Public Administration

**Psychology:**
- PSYCH 3303/5303 Health Psychology *

**Public Health and Education:**
- PH 2630 Aging and Health
- PH 2620 Stress and Coping
- PH 3320/5320 Global Service Mission
**Economics:**

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| PH 2530 | Introduction to Women's Health |
| PH 3330/5330 | Minority Health |
| PH 3340/5340 | International Health |
| PH 3720/5720 | Environmental and Occupational Health Regulations |

**Sociology:**

| SOC 3035/5035 | Social Gerontology * |
| SOC 3086/5086 | Medical Sociology * |

**Total Hours** 18-21

* The following courses have additional prerequisites:
  - ANTH 3102/5102 has prerequisite of SOC 1000 or ANTH 1002. SOC 1000 or ANTH 1002 can be used to satisfy UNIFI/General Education requirements.
  - CRIM 3369 has prerequisite of SOC 1000 or SOC 1060; CRIM 2025. SOC 1000 can be used to satisfy the Human Condition (Domestic) requirement in the UNIFI/General Education program.
  - PSYCH 3303/5303 has prerequisite of PSYCH 1001. PSYCH 1001 can be used to satisfy the Human Condition (Domestic) requirement in the UNIFI/General Education program.
  - SOC 3035/5035 and SOC 3086/5086 have prerequisite of SOC 1000 or SOC 1060. SOC 1000 or SOC 1060 can be used to satisfy the Human Condition (Domestic) requirement in the UNIFI/General Education program.

**Objective 1:** Students will demonstrate disciplinary content knowledge

1.1 Learners will demonstrate broad knowledge of the business disciplines

1.2 Learners will calculate the opportunity cost of an action.

1.3 Learners will evaluate the effects of changes in supply and/or demand on market equilibrium price and quantity.

**Objective 2:** Students will use quantitative skills to aid business decision making

2.1 Learners will display a broad set of quantitative skills as applied to business decision making across a wide range of business disciplines

2.2 Learners will test hypotheses, interpret the results, and apply the results in making decisions.

2.3 Learners will test for, analyze, and interpret the relationship between two or more variables.

**Objective 3:** Students will display communication skills

3.1 Learners will demonstrate strong written communication skills as required for a business major

3.2 Learners will accurately summarize material, both orally and in writing.

**Objective 4:** Students will be able to apply critical thinking skills

4.1 Learners will apply basic critical thinking skills as expected for all business majors

4.2 Learners will construct a conclusion, or solution, following appropriate reasoning and evaluation of evidence.

**Objective 5:** Students will understand the work value expectations of contemporary organizations

5.1 Learners will identify ethical components in business situations

5.2 Learners will display other work values such as professional demeanor, quality of effort, dependability, attitude, and initiative

**Economics: Applied Economics Analysis, B.A.**

**Objective 1:** Students will demonstrate disciplinary content knowledge

1.1 Learners will demonstrate broad knowledge of the business disciplines

1.2 Learners will calculate the opportunity cost of an action.

1.3 Learners will evaluate the effects of changes in supply and/or demand on market equilibrium price and quantity.

**Objective 2:** Students will use quantitative skills to aid business decision making

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4.2 Learners will construct a conclusion, or solution, following appropriate reasoning and evaluation of evidence.

**Objective 5:** Students will understand the work value expectations of contemporary organizations

5.1 Learners will identify ethical components in business situations
Department of Economics

5.2 Learners will display other work values such as professional demeanor, quality of effort, dependability, attitude, and initiative

Economics: Business Economics, B.A.
Objective 1: Students will demonstrate disciplinary content knowledge.

1.1 Learners will demonstrate broad knowledge of the business disciplines

1.2 Learners will calculate the opportunity cost of an action.

1.3 Learners will evaluate the effects of changes in supply and/or demand on market equilibrium price and quantity.

Objective 2: Students will use quantitative skills to aid business decision making

2.1 Learners will display a broad set of quantitative skills as applied to business decision making across a wide range of business disciplines.

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Objective 5: Students will understand the work value expectations of contemporary organizations

5.1 Learners will identify ethical components in business situations

5.2 Learners will display other work values such as professional demeanor, quality of effort, dependability, attitude, and initiative

Economics: Quantitative Techniques, B.A.
Objective 1: Students will demonstrate disciplinary content knowledge

1.1 Learners will demonstrate broad knowledge of the business disciplines

1.2 Learners will calculate the opportunity cost of an action.

1.3 Learners will evaluate the effects of changes in supply and/or demand on market equilibrium price and quantity.

Objective 2: Students will use quantitative skills to aid business decision making

2.1 Learners will display a broad set of quantitative skills as applied to business decision making across a wide range of business disciplines

2.2 Learners will test hypotheses, interpret the results, and apply the results in making decisions.

2.3 Learners will test for, analyze, and interpret the relationship between two or more variables.

Objective 3: Students will display communication skills

3.1 Learners will demonstrate strong written communication skills as required for a business major

3.2 Learners will accurately summarize material, both orally and in writing.

Objective 4: Students will be able to apply critical thinking skills

4.1 Learners will apply basic critical thinking skills as expected for all business majors

4.2 Learners will construct a conclusion, or solution, following appropriate reasoning and evaluation of evidence.

Objective 5: Students will understand the work value expectations of contemporary organizations

5.1 Learners will identify ethical components in business situations

5.2 Learners will display other work values such as professional demeanor, quality of effort, dependability, attitude, and initiative

Courses

Explains basic economic theories and establishes connections between these theories and current social issues. Discusses policies that have been constructed or proposed to address these issues, including but not limited to labor market discrimination, immigration, and environmental externalities, through both conservative and liberal perspectives. Analyzes the problems of income inequality and poverty through the multiple political philosophies of utilitarianism, liberalism, and libertarianism. Students will reflect on their personal values in the context of contemporary social issues. (Fall and Spring)

ECON 1011. Statistics for Business Analytics — 3 hrs.
Application and interpretation of probability and statistics as applied to business problems. Descriptive statistics, hypothesis testing, linear regression, and correlation. May not be used for credit on the Economics major or minor or the Social Science major or minor. Prerequisite(s): STAT 1772 or equivalent. (Fall and Spring)

ECON 1031. Introduction to Business Economics — 3 hrs.
A survey of how markets and the economy as a whole function, with emphasis on decision making by businesses and economic literacy. Topics include markets for goods, services, and inputs; cost of production; and the measurements and determinants of national income, unemployment, and inflation. No credit for students who have
credit or are concurrently enrolled in ECON 1041 or ECON 1051. May not be used for credit on Economics major or minor. (Fall and Spring)

Introduction to the economizing problem and economic institutions. National income determination, monetary and fiscal policy, and global economic issues. (Fall and Spring)

ECON 1051. Principles of Microeconomics — 3 hrs.
Study of how consumers make decisions, firms maximize profits, and various market structures affect prices and output. Topics include supply and demand, elasticity, consumer and producer welfare, firm production and costs, and market structures. Prerequisite(s): C- or better in ECON 1041 or consent of department head. (Fall and Spring)

ECON 2090. Decision Analytics — 3 hrs.
Quantitative and qualitative aspects of problem solving and decision making. Structuring and basics of decision making, applications of probability, functional relationships, marginal analysis, and linear programming. Emphasis on model formulation and interpretation of results. May not be used for credit on the Economics major or minor or the Social Science major or minor. Prerequisite(s): STAT 1772 or equivalent; MGMT 2080 (can be taken as a corequisite) or PHYSICS 1701. (Fall and Spring)

ECON 2112. Intermediate Microeconomic Theory — 3 hrs.
In-depth analysis of consumer theory, firm production and costs, and market structures, with a primary focus on how individuals and firms make choices. Prerequisite(s): ECON 1041; ECON 1051. (Fall)

Intermediate level macroeconomics. Determinants of aggregate demand, national product and employment; and macroeconomics objectives and policies. Prerequisite(s): ECON 1041; ECON 1051. (Spring)

ECON 2132. Money and Banking — 3 hrs.
Money, commercial banking, the Federal Reserve System, and monetary policy. Prerequisite(s): ECON 1041; ECON 1051. (Fall and Spring)

ECON 2140. Health Economics — 3 hrs.
Health Economics: The application of economic principles to the delivery, costs, pricing, and financing of health care services and products. Emphasis is on the health care industry, consumer choices, and government policy. Prerequisite(s): ECON 1031 or ECON 1041 or ECON 1051. (Variable)

ECON 3125. Economics of Sustainability — 3 hrs.
Economics of Sustainability Why do some businesses pursue sustainability initiatives while others do not? What does economic theory tell us about preservation versus use of natural resources? This course will explore such questions by evaluating the business, social, and policy implications of sustainability when viewed through both an economic and interdisciplinary perspective. Prerequisite(s): ECON 1031 or ECON 1041 or ECON 1051 or consent of instructor; junior standing. (Odd Falls)

ECON 3179. Cooperative Education in Economics — 1-6 hrs.
Compensated work experience in conjunction with an academic project conducted under faculty guidance. University elective credit is given on a graded basis. Prerequisite(s): ECON 2122; ECON 2112; cumulative UNI GPA of 3.00 or higher required prior to application; consent of department head. (Fall, Spring, Summer)

ECON 3217/S217. Economics of Labor Markets — 3 hrs.
An investigation into the market forces affecting the supply of and demand for labor and the determination of wages in the U.S. Discussion topics may include income maintenance programs, health and safety in industry, income inequality, human capital formation and/or labor mobility. Prerequisite(s): ECON 1041; ECON 1051; junior standing. (Variable)

ECON 3221/S221. Public Finance — 3 hrs.
Taxation and government expenditures; fiscal policy. Prerequisite(s): ECON 1041; ECON 1051; junior standing. (Variable)

Covers concepts in International Economics as well as international financial economics. Topics in International Economics will include international trade theory, trade strategies, economic unions, and factor movements. Topics in international financial economics will include international financial theories and analysis of balance of payments, alternative exchange rate regimes, and capital movements. Prerequisite(s): ECON 1041; ECON 1051; junior standing. (Variable)

Achieving allocative efficiency and cost-effectiveness when setting environmental policy. Modeling environmental quality as a public good and pollution as an economic problem. Assessing the command-and-control approach versus the market approach to environmental problem solving and policy. Exploring historical and current policies on air quality, water quality, solid waste/toxic substance management, and/or global environmental management. Prerequisite(s): ECON 1041; ECON 1051; junior standing. (Even Falls)

Impact of public projects on resource allocation and social well being. Meaning and interpretation of Net Present Value (NPV). Problems encountered in quantifying various components of NPV and merits of alternative solutions. Prerequisite(s): ECON 1041; ECON 1051; junior standing. (Variable)

ECON 3231/S231. Law and Economics — 3 hrs.
Analysis of the influence of legal rules and institutions on the economic behaviors of individuals. Examination of the principles of economics as they relate to private and public law, with special emphasis on economic efficiency and equity. Applications from civil procedure, criminal, contract, and tort law. Prerequisite(s): ECON 1041; ECON 1051; junior standing. (Variable)

Uses microeconomic principles with simple game theory and probability/statistical tools to investigate the organization of professional sports leagues, player pay, competitive balance, demand for games, public financing of sports, and other issues. Prerequisite(s): ECON 1041; ECON 1051; or consent of instructor; junior standing. (Variable)

Structure, conduct, and performance of firms, industries, and market. Policies to maintain competition. Prerequisite(s): ECON 1041; ECON 1051; junior standing. (Variable)

ECON 3249/S249. Economic Development — 3 hrs.
Characteristics of developing nations, causes of underdevelopment, development theories, and development strategies. Prerequisite(s): ECON 1041; ECON 1051; junior standing. (Variable)
ECON 3253/5253. Urban and Regional Economics — 3 hrs.
Theory of location and regional development; factors influencing growth and location of production, location of households, city location and urban hierarchies, and land use patterns; measures and change in regional economic activity; and public policy issues in regional and urban evolution. Research methods including economic base, employment multiplier, location quotient, and threshold analyses. Prerequisite(s): ECON 1041 and ECON 1051, or consent of instructor; junior standing. (Variable)

ECON 3257/5257. History of Economic Thought — 3 hrs.
Development of economic theory from early Greeks to John Maynard Keynes. Special emphasis given to Adam Smith, Karl Marx, and Thorstein Veblen. Prerequisite(s): ECON 1041; ECON 1051; junior standing. (Variable)

ECON 3269/5269. Mathematical Economics — 3 hrs.
Application of mathematics to economics with an emphasis on matrices and introductory calculus. Prerequisite(s): ECON 1041 and ECON 1051, or consent of instructor; junior standing. (Variable)

ECON 3371. Economic and Business Forecasting — 3 hrs.
Economic and Business Forecasting: The formulation of forecasts using statistical methods and software for time series data. Emphasis on forecasting economic variables such as employment, prices, and production, and business variables such as sales and inventories. Prerequisite(s): STAT 1772, ECON 1031 or ECON 1041 or ECON 1051, or consent of instructor; junior standing. (Spring)

ECON 3373/5373. Introduction to Econometrics — 3 hrs.
Econometric techniques and the development of statistical techniques unique to economics; econometric relationships derived in single and multivariate linear and non-linear regression analysis; use of statistical inference in econometric investigation with applications to classical works of economic topics. Prerequisite(s): STAT 1772; ECON 1041 and ECON 1051, or consent of instructor; junior standing. (Fall)

ECON 4380/5380. Directed Research in Economics — 3 hrs.
Students demonstrate their grasp of economic theory and their writing abilities. Prerequisite(s): ECON 1041; ECON 1051; ECON 2112; ECON 2122; senior standing; Economics major. (Variable)

ECON 6285. Individual Readings — 1-3 hrs.
Prerequisite(s): consent of MBA Director and department head. (Fall, Spring, Summer)

ECON 6299. Research — 1-6 hrs.
Prerequisite(s): consent of MBA Director and department head. (Fall, Spring, Summer)

ECON 6520. Managerial Economics — 3 hrs.
Application of economic theory and methods to business and administrative decision making. Prerequisite(s): ECON 1031 or equivalent; consent of MBA Director. (Variable)