ECONOMICS

Chair: Moriah Bostian
Administrative Assistant: Katie Sholian

Economics is the study of choice, and the Department of Economics offers courses that explore individual decision making (as workers, consumers, producers, citizens, investors) and how these decisions aggregate into economy-wide outcomes (employment, price levels, interest rates, balance of payments, government budgets). The department focuses on the modern mixed economy, with its combination of private enterprise, government taxes and expenditures, and other nongovernmental organizations. The decisions of individuals and organizations determine how much output an economy produces, how the output is produced, and who consumes the output. The courses in the department provide a solid theoretical foundation and apply the theory to practical problems faced by individuals, organizations, and governments.

Resources for Nonmajors
The department offers introductory courses and elective courses that may be of interest to students majoring in other disciplines. Our two introductory courses, ECON 100 Principles of Economics and ECON 103 Statistics, are designed for both majors and nonmajors.

The Major Program
The core curriculum begins with three introductory-level courses that provide an introduction to economic analysis and develop the tools required for more advanced work. Students interested in majoring in economics will ideally complete the first three introductory courses (ECON 100, ECON 103, and MATH 131) and declare economics as their major by the end of their second year.

The next step in the core curriculum is three courses in economic theory and empirical methods (ECON 301, ECON 302, and ECON 303). Economics is the study of choice, and students are encouraged to start with an analysis of individual choice in ECON 301 before studying aggregate choice in ECON 302.

Students completing the six core theory and empirical methods courses are prepared to enroll in elective courses at the 300 and 400 level. To complete the major, a student must complete at least 16 semester credits of economics electives, with 8 credits at the 300 and 400 level. ECON 444 Practicum does not meet this requirement.

The final step in the core curriculum is the capstone course, ECON 433 Senior Seminar. Students must complete 8 credits at the 300 level or above to enroll in ECON 433. ECON 444 Practicum does not meet this requirement.

Major Requirements
A minimum of 44 semester credits, distributed as follows:

Core Courses, Introductory

- ECON 100 Principles of Economics
- ECON 103 Statistics (PSY 200, MATH 105, or MATH 255 may be used in place of ECON 103)
- MATH 131 Calculus I

Core Courses, Economic Theory, and Empirical Methods

- ECON 301 Intermediate Microeconomic Theory
- ECON 302 Intermediate Macroeconomic Theory
- ECON 303 Econometrics

Electives

- At least 16 semester credits of economics electives, of which at least 8 credits must be at the 300/400 level. ECON 444 Practicum does not meet this requirement.

Capstone

- ECON 433 Senior Seminar

Students intending to pursue graduate studies in economics or careers as research economists are strongly encouraged to take additional mathematics courses, particularly calculus, linear algebra, real analysis (discrete mathematics), differential equations, and advanced statistics.

Minor Requirements
A minimum of 24 semester credits distributed as follows:

- ECON 100 Principles of Economics
- ECON 103 Statistics (PSY-200, MATH 105 or MATH 255 may be used in place of ECON 103)
- 16 credits of Economics electives at the 200, 300 or 400 level.

At least 12 semester credits must be specific to the minor (may not be used in any other set of major or minor requirements).

Honors
The department grants honors on graduation to economics majors who meet all of the following criteria:

- Attain a cumulative GPA of 3.500 or higher
- Attain a GPA of 3.750 or higher in all courses counted toward the major
- Complete at least one 400-level elective chosen from the following:
  - ECON 434 Mathematical Economics
  - ECON 401 Advanced Microeconomics
  - ECON 402 Advanced Macroeconomics

Faculty


Éric Tympaigne. Associate professor of economics. Macroeconomics, money and banking, monetary theory. PhD 2006 University of Missouri at Kansas City. MA 2000 Université Paris-Dauphine. BA 1999 Université de Bretagne Occidentale à Brest.

Courses

**ECON 100 Principles of Economics**

**ECON 103 Statistics**
Content: Theory and applications of statistics and probability used in the study of economics. Descriptive statistics, probability, random variables and their distributions, statistical inference. Applications of statistical inference ranging from estimating the mean from a univariate population to multiple regression analysis. Credit may not be earned for both this course and AP Statistics. Prerequisites: QR 101 or equivalent. Usually offered: Annually, fall and spring semester. Semester credits: 4.

**ECON 215 Game Theory**
Content: The tools of cooperative and noncooperative game theory. Modeling competitive situations, solution concepts such as Nash equilibrium and its refinements, signaling games, repeated games under different informational environments, bargaining models, issues of cooperation and reputation, evolutionary game theory. Application to economics and other disciplines. Emphasis on quantitative modeling and analytical approaches to strategic thinking. Prerequisites: ECON 100. Restrictions: Sophomore standing required. Usually offered: Annually, fall and spring semester. Semester credits: 4.

**ECON 220 The Financial System and the Economy**

**ECON 235 Labor Economics**
Content: The operation and political economy of labor markets: current labor issues, employment and unemployment, supply of and demand for labor, employment wages and earnings under various market structures, discrimination, labor mobility, the role of trade unions, the nature of work. Prerequisites: ECON 100. Restrictions: Sophomore standing and consent required. Usually offered: Annually, fall and spring semester. Semester credits: 1-4.

**ECON 244 Practicum**
Content: Opportunities for well-prepared students to put academic concepts and techniques to work in the private or public sector. Specific activities vary; usually involve work with a public agency or private group. Credit-no credit. May be repeated for credit. Prerequisites: ECON 100 or ECON 210. Restrictions: Sophomore standing required. Usually offered: Annually, fall and spring semester. Semester credits: 4.

**ECON 245 Political Economy**
Content: Critical connections among different economic structures and dynamics on the one hand, and political strategies and struggles for change on the other. Economic crisis theory, theories of the state, class and class consciousness, labor, and social-movement struggles. Prerequisites: ECON 100. Restrictions: Sophomore standing required. Usually offered: Annually, spring semester. Semester credits: 4.

**ECON 250 Radical Political Economics**

**ECON 252 Economic Development**
Content: Europe's transition from an agricultural to an industrial society in the 18th century. The roots of the Industrial Revolution over the very long term, 1000 to 1750, through the application of basic economic theory. Causes and consequences of very long-term economic growth. Specific attention paid to technology, institutions, geography, and culture as sources of economic growth. While the geographic focus is European, important cross-sectional work, especially with regard to China, is undertaken. Prerequisites: ECON 100. Restrictions: Sophomore standing required. Usually offered: Every third year, spring semester. Semester credits: 4.

**ECON 256 The Industrial Revolution**
Content: Europe’s transition from an agricultural to an industrial society in the 18th century. The roots of modern economic growth in preindustrial Europe, the contributions of science and technology, trade, government, and population. Consequences of industrialization for living standards, both long-run improvements and short-run hardships. Rise of European power abroad and colonial contributions to growth. Focus on the British Industrial Revolution. Prerequisites: ECON 100. Restrictions: Sophomore standing required. Usually offered: Every third year, spring semester. Semester credits: 4.
**ECON 260 Environmental and Natural Resource Economics**
Content: An analysis of environmental and resource problems ranging from hazardous-waste disposal to air pollution, species extinction to global warming, from an economic perspective. The property-rights basis of pollution problems, environmental ethics, benefit-cost analysis, regulatory policy, clean technology, population growth and consumption, sustainable development.
Prerequisites: ECON 100.
Restrictions: Sophomore standing required.
Usually offered: Annually, spring semester.
Semester credits: 4.

**ECON 265 Pacific Northwest Policy Issues**
Content: Basic economic analysis to explore issues facing the Pacific Northwest. Diagnosis of the problem motivating a policy and evaluation of the merits of the policy solution. Potential issues: financing public education, promoting economic development, protecting natural resources, designing mass transit, providing public support for professional sports, responding to gentrification.
Prerequisites: ECON 100.
Restrictions: Sophomore standing required.
Usually offered: Every third year, spring semester.
Semester credits: 4.

**ECON 299 Independent Study**
Content: Opportunities for well-prepared students to design and pursue a substantive course of independent learning. Details determined by the student and the supervising instructor. May be repeated for credit.
Prerequisites: None.
Restrictions: Sophomore standing and consent required.
Usually offered: Annually, fall and spring semester.
Semester credits: 1-4.

**ECON 301 Intermediate Microeconomic Theory**
Prerequisites: ECON 100, MATH 131.
Restrictions: Sophomore standing required.
Usually offered: Annually, fall and spring semester.
Semester credits: 4.

**ECON 302 Intermediate Macroeconomic Theory**
Content: Monetarily sovereign governments are not constrained in the same way as economic units that use a currency. Mechanics of monetary sovereignty and their implications for public finances and economic stability. Public debt, taxes, and monetary financing. Real vs. financial constraints and policy choices. Differences between sovereign and nonsovereign governments.
Prerequisites: ECON 302.
Restrictions: Sophomore standing required.
Usually offered: Alternate Years, spring semester.
Semester credits: 4.

**ECON 260 Environmental and Natural Resource Economics**
Content: An analysis of environmental and resource problems ranging from hazardous-waste disposal to air pollution, species extinction to global warming, from an economic perspective. The property-rights basis of pollution problems, environmental ethics, benefit-cost analysis, regulatory policy, clean technology, population growth and consumption, sustainable development.
Prerequisites: ECON 100.
Restrictions: Sophomore standing required.
Usually offered: Annually, spring semester.
Semester credits: 4.

**ECON 265 Pacific Northwest Policy Issues**
Content: Basic economic analysis to explore issues facing the Pacific Northwest. Diagnosis of the problem motivating a policy and evaluation of the merits of the policy solution. Potential issues: financing public education, promoting economic development, protecting natural resources, designing mass transit, providing public support for professional sports, responding to gentrification.
Prerequisites: ECON 100.
Restrictions: Sophomore standing required.
Usually offered: Every third year, spring semester.
Semester credits: 4.

**ECON 299 Independent Study**
Content: Opportunities for well-prepared students to design and pursue a substantive course of independent learning. Details determined by the student and the supervising instructor. May be repeated for credit.
Prerequisites: None.
Restrictions: Sophomore standing and consent required.
Usually offered: Annually, fall and spring semester.
Semester credits: 1-4.

**ECON 301 Intermediate Microeconomic Theory**
Prerequisites: ECON 100, MATH 131.
Restrictions: Sophomore standing required.
Usually offered: Annually, fall and spring semester.
Semester credits: 4.

**ECON 302 Intermediate Macroeconomic Theory**
Content: Monetarily sovereign governments are not constrained in the same way as economic units that use a currency. Mechanics of monetary sovereignty and their implications for public finances and economic stability. Public debt, taxes, and monetary financing. Real vs. financial constraints and policy choices. Differences between sovereign and nonsovereign governments.
Prerequisites: ECON 302.
Restrictions: Sophomore standing required.
Usually offered: Alternate Years, spring semester.
Semester credits: 4.

**ECON 303 Econometrics**
Content: Construction and estimation of statistical models of the economy; using statistical models to test economic hypotheses. Multiple regression analysis, residual analysis, analysis of variance.
Prerequisites: ECON 103, MATH 105, PSY 200, or MATH 255; ECON 301 or ECON 302; MATH 131.
Restrictions: Sophomore standing required.
Usually offered: Annually, fall and spring semester.
Semester credits: 4.
ECON 360 Advanced Environmental and Natural Resource Economics
Content: Application of intermediate microeconomic theory to contemporary environmental and natural-resource problems such as air and water pollution, climate change, land use, and biodiversity. Use of utility maximization to derive the demand for environmental goods, revealed preferences to value changes in environmental quality, and discounting theory to determine optimal resource use over time. Focus on the theory of environmental and natural-resource policies, such as pollution standards and fees, permit markets, and land use regulations, as well as their implementation in practice.
Prerequisites: ECON 301.
Restrictions: Sophomore standing required.
Usually offered: Alternate Years, spring semester.
Semester credits: 4.

ECON 365 Public Economics
Content: The role of government in a primarily market economy. Microeconomic issues: the provision of public goods; externality problems; the incidence, efficiency, and broader impacts of taxation policy; different approaches to defining fairness in income distribution; economic theories of public choice. Pressing current public-policy issues including health care and education policy, welfare reform, campaign finance, the social security system, defense spending.
Prerequisites: ECON 301.
Restrictions: Sophomore standing required.
Usually offered: Alternate Years, fall semester.
Semester credits: 4.

ECON 401 Advanced Microeconomics
Content: Microeconomic strengths and weaknesses of market-directed economic activity. Industrial policy, discrimination in labor markets, impact and role of trade unions, welfare economics.
Prerequisites: ECON 301.
Restrictions: Sophomore standing required.
Usually offered: Alternate Years, spring semester.
Semester credits: 4.

ECON 402 Advanced Macroeconomics
Content: Topics beyond intermediate macroeconomics including alternate theories of consumption and investment, macroeconomic forecasting, the role of expectations, problems with macro measurements.
Prerequisites: ECON 302.
Restrictions: Sophomore standing required.
Usually offered: Alternate Years, spring semester.
Semester credits: 4.

ECON 433 Senior Seminar
Content: Advanced research in economics. Production of a research paper and distribution to instructor and class members. Oral presentation of research paper to students, faculty, and the campus community. The research paper requires students to construct, research, write, and present rigorous analysis on an economic question. Topics chosen by students.
Prerequisites: ECON 103, MATH 105, PSY 200, or MATH 255; ECON 301, ECON 302, and ECON 303; at least two 300-level or 400-level economics electives.
Restrictions: Senior standing required.
Usually offered: Annually, spring semester.
Semester credits: 4.

ECON 434 Mathematical Economics
Content: Mathematical models of economic behavior. Mathematics of microeconomic theory and macroeconomic theory, economic optimization, equilibrium and disequilibrium analysis, probability models, growth theory, dynamic economic modeling.
Prerequisites: ECON 103, MATH 105, PSY 200, or MATH 255; ECON 301 or ECON 302; MATH 131.
Restrictions: Sophomore standing required.
Usually offered: Alternate Years, spring semester.
Semester credits: 4.

ECON 444 Practicum
Content: Same as ECON 244 but requiring more advanced work. Credit-no credit. May be repeated for credit.
Prerequisites: ECON 103, MATH 105, PSY 200, or MATH 255 ECON 301.
Restrictions: Sophomore standing and consent required.
Usually offered: Annually, fall and spring semester.
Semester credits: 1-4.

ECON 499 Independent Study
Content: Same as ECON 299 but requiring more advanced work. May be repeated for credit.
Prerequisites: None.
Restrictions: Sophomore standing and consent required.
Usually offered: Annually, fall and spring semester.
Semester credits: 1-4.