Economics Courses (ECON)

This is a list of all economics courses. For more information, see Economics.

**ECON:1100 Principles of Microeconomics** 4 s.h.
Organization, workings of modern economic systems; role of markets, prices, competition in efficient allocation of resources and promotion of economic welfare; alternative systems; international trade. Requirements: B.B.A. students cannot use this course for General Education social sciences. GE: Social Sciences.

**ECON:1200 Principles of Macroeconomics** 4 s.h.
National income and output, employment, and inflation; money, credit; government finance; monetary, fiscal policy; economic growth, development; international finance. Requirements: B.B.A. students cannot use this course for General Education social sciences. GE: Social Sciences.

**ECON:1300 First-Year Seminar** 1 s.h.
Small discussion class taught by a faculty member; topics chosen by instructor; may include outside activities (e.g., films, lectures, performances, readings, visits to research facilities).

**ECON:1999 Introduction to Research in Business** 1 s.h.
Introduction to research in business, including scope and methods of business research, questions for which business research seeks answers, and impact of business research on society; weekly seminars include discussion and exploration and serve as preparation for engaging in mentored research. Same as BUS:1999.

**ECON:2800 Statistics for Strategy Problems** 3 s.h.
Continuation of STAT:1030; working knowledge of statistical techniques; scientific data-based approach to problem formulation and solution; statistical techniques in the context of real data analysis; assessment of defects in statistical analyses; using data for making business decisions; choosing appropriate statistical procedures; developing skill in communicating statistical results to audiences without knowledge of statistics. Prerequisites: (STAT:1030 or STAT:2010 or STAT:2020 with a minimum grade of B or STAT:3100 or STAT:3101 or STAT:3120 or STAT:3510 with a minimum grade of B or STAT:4100 or BIOS:4120 or PSQF:4143 with a minimum grade of B) and (MATH:1380 or MATH:1460 or MATH:1550 or MATH:1850 or MATH:1860).

**ECON:3100 Intermediate Microeconomics** 3 s.h.
Economic theory of the behavior of consumers, producers, and other economic agents; role of markets in coordinating economic activity; conditions that markets require for efficient allocation of resources; market imperfections; strategic behavior of economic actors. Prerequisites: ECON:1100 and (MATH:1380 or MATH:1460 or MATH:1550 or MATH:1850 or MATH:1860).

**ECON:3150 Intermediate Macroeconomics** 3 s.h.
Measurement of macroeconomic indicators; economic growth and business cycles; use of macroeconomic models to study the role of government fiscal and monetary policies. Prerequisites: ECON:1200 and (MATH:1380 or MATH:1460 or MATH:1550 or MATH:1850 or MATH:1860).

**ECON:3250 American Economic History** 3 s.h.
Prerequisites: (ECON:1100 and ECON:1200) or (ECON:1100 and HIST:1261). Same as HIST:3360.

**ECON:3325 Personnel Economics** 3 s.h.
Microeconomic analysis of labor markets, related institutions; labor supply decisions made by workers, labor demand decisions made by firms, market equilibrium; economic analysis of unions; returns to education; family decisions. Prerequisites: ECON:1100.

**ECON:3335 Money, Banking, and Financial Markets** 3 s.h.
Role of money, institutions in determination of income, employment, prices in domestic and world economy. Prerequisites: ECON:1100 and ECON:1200.

**ECON:3345 Global Economics and Business** 3 s.h.
Modern theories of international trade and investment; role of tariffs and other restrictions on international trade; foreign exchange markets, international monetary arrangements, international economic policy. Prerequisites: ECON:1100 and ECON:1200.

**ECON:3350 Industry Analysis** 3 s.h.
Structural evolution; imperfect competition; resource allocation; development of public policy on monopoly; selected industries. Prerequisites: ECON:1100.

**ECON:3355 Economic and Business Forecasting** 3 s.h.
How to develop and utilize forecasts; emphasis on modern statistical methods and software applied to quantitative forecasting problems; specific applications to business and economics include forecasting sales, market prices, inventory, macroeconomic factors (interest rates, exchange rates, levels of employment). Prerequisites: ECON:1100 and ECON:1200 and (ECON:2800 or ECON:4800 or STAT:3200).

**ECON:3370 Household Finance** 3 s.h.
Application of micro- and macro-economic theory to economic decisions of families and households; practical and theoretical issues in income generation, spending and saving decisions, risk management, and asset allocation. Prerequisites: ECON:1100 and ECON:1200.

**ECON:3610 Development of Local and Regional Economies** 3 s.h.
Theories, methods, and public policy in regional economic development; business and industrial locations; theories of regional growth and development; tools for regional economic analysis; technology and knowledge economy; globalization and trade; economic development finance and policy. Prerequisites: ECON:1100. Same as URP:3136.

**ECON:3620 Economic Growth and Development** 3 s.h.
Determinants of rising living standards; accumulation of physical and human capital; predictions of economic growth models compared to observed changes in living standards. Prerequisites: ECON:1100 and ECON:1200.

**ECON:3625 Environmental and Natural Resource Economics** 3 s.h.
Environmental and resource use problems; efficient mechanisms and other policies for environmental protection, management of common property resources. Prerequisites: ECON:1100. Same as URP:3135.

**ECON:3640 Regional and Urban Economics** 3 s.h.
Theory of location and regional development; central place theory: why cities exist and trade with one another; models of land use patterns, rents; empirical tests of models; policy applications. Prerequisites: ECON:1100. Same as URP:3134.
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON:3650</td>
<td>Policy Analysis</td>
<td>3 s.h.</td>
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<tr>
<td>ECON:3690</td>
<td>Sports Economics</td>
<td>3 s.h.</td>
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<tr>
<td>ECON:3750</td>
<td>Transportation Economics</td>
<td>3 s.h.</td>
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<tr>
<td>ECON:3760</td>
<td>Health Economics</td>
<td>3 s.h.</td>
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<tr>
<td>ECON:3770</td>
<td>Urban Transportation</td>
<td>arr.</td>
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<td>ECON:3790</td>
<td>Antitrust Economics</td>
<td>3 s.h.</td>
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<tr>
<td>ECON:3800</td>
<td>Law and Economics</td>
<td>3 s.h.</td>
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<tr>
<td>ECON:3870</td>
<td>Federal Reserve Challenge</td>
<td>1 s.h.</td>
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<tr>
<td>ECON:3875</td>
<td>Topics in Policy Economics</td>
<td>arr.</td>
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<tr>
<td>ECON:3999</td>
<td>Honors Seminar</td>
<td>1-3 s.h.</td>
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<tr>
<td>ECON:4050</td>
<td>Readings and Independent Study in Economics</td>
<td>arr.</td>
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<tr>
<td>ECON:4090</td>
<td>Natural Resource Economics</td>
<td>3 s.h.</td>
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<td>ECON:4110</td>
<td>International Economics</td>
<td>3 s.h.</td>
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<td>ECON:4140</td>
<td>Labor Economics</td>
<td>3 s.h.</td>
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<td>ECON:4160</td>
<td>Public Sector Economics</td>
<td>3 s.h.</td>
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<td>ECON:4170</td>
<td>Monetary Economics</td>
<td>3 s.h.</td>
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<td>ECON:4180</td>
<td>Industrial Organization</td>
<td>3 s.h.</td>
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<td>ECON:4190</td>
<td>Mathematical Economics</td>
<td>3 s.h.</td>
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<td>ECON:4200</td>
<td>Game Theory</td>
<td>3 s.h.</td>
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<td>ECON:4700</td>
<td>Topics in Analytical Economics</td>
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<td>ECON:4800</td>
<td>Introduction to Econometrics</td>
<td>3 s.h.</td>
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<tr>
<td>ECON:4900</td>
<td>Academic Internship</td>
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ECON:4999 Honors Thesis in Economics 3 s.h.
Independent student project directed by faculty or staff advisor; culminates in thesis that conforms to University Honors Program guidelines; may include empirical research, library research, applied projects. Requirements: economics majors admitted to the College of Liberal Arts and Sciences (B.A., B.S. programs) are not required to be admitted to the University of Iowa Honors Program to enroll in ECON:4999; economics majors admitted to the Tippie College of Business must be admitted to the Tippie honors program to enroll in ECON:4999.

ECON:5000 Economic Analysis I 3 s.h.
Basic metric topology, convex analysis, function spaces, measure theory and integration.

ECON:5005 Real Analysis for Economics 2 s.h.
Basic metric topology, convex analysis, function spaces, measure theory, and integration.

ECON:5010 Economic Analysis II 3 s.h.
Behavior under uncertainty, macroeconomic models; dynamic programming, asset pricing, saving, consumption.

ECON:5015 Dynamic Programming 2 s.h.
Finite- and infinite-horizon, discrete-time dynamic programming; discrete-time stochastic dynamic programming, including computational methods and some economic applications; continuous-time control theory.

ECON:5100 Microeconomics I 3 s.h.
Consumer choice theory, producer theory, choice under uncertainty, basic game theory. Offered fall semesters.

ECON:5110 Microeconomics II 3 s.h.
General equilibrium and welfare analysis, adverse selection, the principal-agent problem, social choice, mechanism design. Offered spring semesters. Prerequisites: ECON:5100.

ECON:5115 Fundamentals of Microeconomics 2 s.h.
Consumer theory, producer theory, partial equilibrium models, expected and nonequilibrium utility theory.

ECON:5125 Game Theory 2 s.h.
Noncooperative and cooperative games, games of perfect and imperfect information, matching games.

ECON:5135 General Equilibrium 2 s.h.
Walrasian equilibrium and its properties, welfare economics, general equilibrium and perfect competition, general equilibrium with externalities, general equilibrium under asymmetric information.

ECON:5145 Information Economics 2 s.h.
Markets with asymmetric information, allocation mechanisms, mechanism design.

ECON:5200 Macroeconomics I 3 s.h.
Economic growth, business cycles, money and inflation. Offered fall semesters.

ECON:5210 Macroeconomics II 3 s.h.
Dynamic macroeconomic models; stochastic macroeconomics; time consistency equilibrium business cycle theory. Offered spring semesters. Prerequisites: ECON:5200.

ECON:5215 Fundamentals of Macroeconomics I 2 s.h.
Infinite horizon endowment economies; neoclassical growth models and dynamic general equilibrium.

ECON:5225 Fundamentals of Macroeconomics II 2 s.h.
Real business cycle models; overlapping generations models.

ECON:5235 Fiscal Policy and Insurance in Macroeconomics 2 s.h.
Fiscal policies, optimal taxation, and endogenous growth; uncertainty and incomplete markets, limited commitment, private information.

ECON:5245 Monetary Economics and Search Theory 2 s.h.
Introduction to monetary and financial economics; search theory and applications to labor and money markets.

ECON:5800 Econometrics 3 s.h.
Statistical inference in single and multiple equation stochastic models, models with nonindependent or nonidentically distributed error structure, dynamic models; OLS, GLS, IV, ML estimation; asymptotic distribution theory; exact, asymptotic hypothesis tests. Prerequisites: STAT:4101.

ECON:5805 Statistics for Economics 2 s.h.
Probability theory, transformations and expectations, common families of distributions, multiple random variables, properties of a random sample, point estimation, hypothesis testing.

ECON:5810 Applied Econometrics 3 s.h.
Empirical problems; multiple linear regression, nonlinear regression, maximum likelihood, hazard functions, univariate and multivariate time series, flexible functional forms. Prerequisites: ECON:5800.

ECON:5815 Theoretical Econometrics I 2 s.h.
Statistical inference in single and multiple equation stochastic models, models with nonindependent or nonidentically distributed error structure, dynamic models; OLS, GLS, IV, ML estimation; asymptotic distribution theory; exact, asymptotic hypothesis tests.

ECON:5825 Theoretical Econometrics II 2 s.h.
Continuation of ECON:5815.

ECON:5855 Applied Econometrics I 2 s.h.
Empirical problems; multiple linear regression, nonlinear regression, maximum likelihood, hazard functions, univariate and multivariate time series, flexible functional forms.

ECON:5865 Applied Econometrics II 2 s.h.
Continuation of ECON:5855.

ECON:6310 Industrial Organization 3 s.h.
The firm, monopolistic competition, oligopoly and workable competition; industrial organization, nature of equilibrium under uncertainty. Prerequisites: ECON:5110.

ECON:6320 Labor Economics 3 s.h.
Problems and models, including intertemporal models of labor markets; uncertainty and labor market activity; retirement decisions, economic theories of fertility; economics of discrimination; job search models; economic models of unions; bargaining and strikes, public sector labor markets; determinants of income distribution; emphasis on empirical verification of theory. Prerequisites: ECON:5110 and (ECON:4800 or ECON:5800).

ECON:6350 Structural Methods in Econometrics 2 s.h.
Introduction to structural econometric approaches which can be applied in labor economics, industrial organization, and elsewhere; theoretical frameworks used in this literature; identifying assumptions needed for model estimation and validation techniques; methods used for the estimation of structural models, including Maximum Likelihood, Method of Moments and simulation-based methods.

ECON:6420 Macroeconomics III 3 s.h.
Current research in macroeconomics; development of research topics with emphasis on theoretical and empirical analysis. Prerequisites: ECON:5110 and ECON:5800.
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<tr>
<td>ECON:6500</td>
<td>International Trade Theory</td>
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<td>The theory of international trade, including basic models of international trade; capital and labor mobility and trade; protection of international trade; the political economy of international trade; empirical applications of international trade.</td>
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<tr>
<td>ECON:6900</td>
<td>Contemporary Topics in Economics</td>
<td>3 s.h.</td>
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<td>Topics not offered in other courses.</td>
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<tr>
<td>ECON:7000</td>
<td>Seminar in Economic Theory</td>
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<td>ECON:7010</td>
<td>Seminar in Economic Theory II</td>
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<tr>
<td>ECON:7020</td>
<td>Seminar in Economics I</td>
<td>2 s.h.</td>
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<td>ECON:7030</td>
<td>Seminar in Economics II</td>
<td>2 s.h.</td>
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<td>ECON:7040</td>
<td>Seminar in Economics III</td>
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<td>ECON:7050</td>
<td>Seminar in Economics IV</td>
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<tr>
<td>ECON:7870</td>
<td>Workshop in Microeconomics</td>
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<td>ECON:7880</td>
<td>Workshop in Macro and Monetary Economics</td>
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<td>ECON:7950</td>
<td>Readings in Economics</td>
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