

ECONOMICS (ECON)

ECON F100X Introduction to Economic Analysis (s)

3 Credits

Offered Fall, Spring and Summer

This course will introduce you to the fundamentals of economic analysis and reasoning and provide you the tools to analyze the behavior of individuals, firms, communities and government under conditions of unlimited wants and scarce resources.

Prerequisites: Placement in WRTG F111X.

Attributes: UAF Core Political Economy, UAF GER Social Sciences Req

Lecture + Lab + Other: 3 + 0 + 0

ECON F111X The Economy of Rural Alaska (an, a)

3 Credits

Offered Fall and Spring

Examine the significance of Alaska Native economies and their role in the modern Alaska economy. To include the challenges facing rural communities, and the role of social and cultural capital. Economic indicators which incorporate Alaska Native health, education, food, energy and resource security, and economic opportunity are evaluated also.

Attributes: UAF GER Social Sciences Req

Lecture + Lab + Other: 3 + 0 + 0

ECON F201X Principles of Economics I: Microeconomics (s)

3 Credits

Offered Fall, Spring and Summer

Price and market theory, income distribution, public policy, labor markets, market structure, and externalities.

Attributes: UAF GER Social Sciences Req

Lecture + Lab + Other: 3 + 0 + 0

ECON F202X Principles of Economics II: Macroeconomics (s)

3 Credits

Offered Fall, Spring and Summer

Analysis and theory of national income, money and banking, stabilization policy, and international trade and finance.

Attributes: UAF GER Social Sciences Req

Lecture + Lab + Other: 3 + 0 + 0

ECON F227 Introductory Statistics for Economics and Business

3 Credits

Offered Fall, Spring and Summer

Introduces statistical theory and methods with an emphasis on economics and business applications. Includes descriptive statistics, probability and probability distribution, statistical inference and regression modelling.

Lecture + Lab + Other: 3 + 0 + 0

ECON F235X Introduction to Natural Resource Economics (s, a)

3 Credits

Offered Fall

Microeconomic principles and their application to natural resource issues. Topics include supply, demand, marginality, optimality, elementary production economics, economic rent and comparative advantage.

These principles applied to agency budget allocation decisions, multiple use, resource valuation, conservation, market failure and public outdoor recreation problems.

Attributes: UAF GER Social Sciences Req

Lecture + Lab + Other: 3 + 0 + 0

ECON F321 Intermediate Microeconomics (s)

3 Credits

Offered Fall and Spring

Analysis of demand and supply under various market forms, cost and theory of production, factor pricing and theory of distribution and survey of welfare economics.

Prerequisites: ECON F201X; ECON F202X; MATH F122X or equivalent.

Lecture + Lab + Other: 3 + 0 + 0

ECON F322 Managerial Economics

3 Credits

Interpretation of economic data and applications of economic theory in business firms. Bridging the gap between theory and practice through empirical studies, cases and decision problems. Emphasis upon decision-making using analysis of research data.

Prerequisites: ECON F201X; ECON F202X; MATH F230X.

Lecture + Lab + Other: 3 + 0 + 0

ECON F324 Intermediate Macroeconomics (s)

3 Credits

Offered As Demand Warrants

This is a one-semester undergraduate-level course in intermediate macroeconomics. We will study the concepts and measurement of income, analysis of aggregate demand and supply and their relation to the level of prices, employment and economic growth.

Prerequisites: ECON F201X; ECON F202X; MATH F122X or equivalent.

Lecture + Lab + Other: 3 + 0 + 0

ECON F327 Intermediate Econometrics for Forecasting and Business

3 Credits

Offered As Demand Warrants

Extension of topics discussed in ECON F227. Understanding the fundamental theory underlying regression methods and learning how to appropriately apply these techniques in the analysis of economic and business problems. Simple and multiple regression and correlation, analysis of variance, forecasting techniques, quality control, nonparametric methods and decision theory.

Prerequisites: STAT F200X or ECON F227.

Lecture + Lab + Other: 3 + 0 + 0

ECON F335 Intermediate Natural Resource Economics (O, s, a)

3 Credits

Extension of concepts developed in ECON F235X, using a higher level of economic analysis. Topics include welfare economics and economic efficiency concepts, benefit/cost analysis, resource allocation over time, resource taxation, common property problems, externalities, public goods, valuation of non-market resources, and land use planning issues.

Prerequisites: COJO F131X or COJO F141X; ECON F201X; ECON F202X or ECON F235X; MATH F230X.

Lecture + Lab + Other: 3 + 0 + 0

ECON F350 Money and Banking (s)

3 Credits

Offered As Demand Warrants

The liquid wealth system in the United States, including the commercial banking system, the Federal Reserve System and nonbank financial institutions; the regulation of money and credit and its impact on macroeconomic policy objectives.

Prerequisites: ECON F201X; ECON F202X.

Lecture + Lab + Other: 3 + 0 + 0

ECON F351 Public Finance (s)

3 Credits

Offered As Demand Warrants

Economic justifications for government; federal, state and local government, taxation, spending and debt; their effects on allocation, distribution, stabilization and growth.

Prerequisites: ECON F201X; ECON F202X; MATH F122X or equivalent.

Lecture + Lab + Other: 3 + 0 + 0

ECON F409 Industrial Organization and Public Policy (W, s)

3 Credits

The relationship of market structure to the economic conduct and performance of firms and industries, the determinants, measurement and classification of market structure, public policy toward mergers, industrial and aggregate concentration.

Prerequisites: ECON F201X; ECON F202X; WRTG F111X; WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; MATH F230X; upper division standing.

Lecture + Lab + Other: 3 + 0 + 0

ECON F420 Labor Markets and Public Policy (W, s)

3 Credits

Offered As Demand Warrants

Application of labor market analysis and wage theory as they relate to public policy issues. Topics include determination of wages, taxation and employment, economic impact of unions, economics of discrimination, and issues relating to women's and minorities' changing roles in the labor market.

Prerequisites: ECON F201X; ECON F202X; WRTG F111X; WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.

Lecture + Lab + Other: 3 + 0 + 0

ECON F434 Environmental Economics (W, a)

3 Credits

Offered As Demand Warrants

An extension of concepts introduced in ECON F235X, using a higher level of economic analysis. An analysis of the economic forces involved in environmental degradation, preservation and regulation. Topics include pollution, biodiversity, wilderness and climatic change.

Prerequisites: ECON F201X and ECON F202X or ECON F235X; MATH F122X; WRTG F111X; WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.

Lecture + Lab + Other: 3 + 0 + 0

ECON F439 Energy Economics (W, s, a)

3 Credits

Offered As Demand Warrants

Market forces and institutions affecting the allocation of energy resources. Special attention to intertemporal allocative decisions and the role that public policy plays in influencing the rate at which energy resources are used over time.

Prerequisites: ECON F201X and ECON F202X or ECON F235X; WRTG F111X; WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X.

Stacked with ECON F639.

Lecture + Lab + Other: 3 + 0 + 0

ECON F451 Public Expenditure Analysis (W)

3 Credits

Offered Spring Odd-numbered Years

Purposes and economic effects of governmental expenditures, budgeting techniques, and their effects on resource allocation.

Prerequisites: ECON F201X; ECON F202X; WRTG F111X; WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; MATH F230X.

Lecture + Lab + Other: 3 + 0 + 0

ECON F463 International Economics (W, s, a)

3 Credits

Pure theory of international trade: comparative cost, terms of trade, and factor movements. International disequilibrium: balance of payments and its impact on national economy, capital movement and economic development through international trade.

Prerequisites: ECON F201X; ECON F202X; WRTG F111X; WRTG F211X, WRTG F212X, WRTG F213X or WRTG F214X; MATH F230X.

Lecture + Lab + Other: 3 + 0 + 0

ECON F601 Microeconomic Theory I

3 Credits

Offered As Demand Warrants

Analysis of consumer and producer theory, price determination and welfare economics.

Prerequisites: ECON F321; MATH F251X; graduate standing.

Lecture + Lab + Other: 3 + 0 + 0

ECON F602 Economic Modeling

3 Credits

Offered As Demand Warrants

A hands on approach to applied microeconomics and resource modeling. Students extend their training in economic theory and econometrics to model real life problems in the areas of renewable and exhaustible resources, non-market valuation and environmental economics. Special emphasis will be given to the use of econometric analyses.

Prerequisites: ECON F601; ECON F626; graduate standing.

Lecture + Lab + Other: 3 + 0 + 0

ECON F603 Macroeconomic Theory I

3 Credits

Offered As Demand Warrants

Analysis of the underlying causes of unemployment, economic instability, inflation and economic growth.

Prerequisites: ECON F321; ECON F324; MATH F251X; graduate standing.

Lecture + Lab + Other: 3 + 0 + 0

ECON F613 Resilience Internship

2 Credits

Offered As Demand Warrants

Students of the Resilience and Adaptation Program participate in internships to broaden their interdisciplinary training, develop new research tools and build expertise outside their home disciplines. Internships are for eight to ten weeks of full time commitment and take place during the student's first summer in the program. In autumn students meet to discuss their internship experiences and make public presentations.

Prerequisites: ANTH F667, BIOL F667, ECON F667 or NRM F667; ANTH F668, BIOL F668, ECON F668 or NRM F668.

Cross-listed with ANTH F617; BIOL F613; NRM F613.

Lecture + Lab + Other: 2 + 0 + 0

ECON F616 Economics Background for Resilience and Adaptation (a)

1 Credit

Offered As Demand Warrants

Provides the economics background that is necessary for understanding the role of economics in complex systems involving interactions among biological, economic, and social processes. Designed for incoming students of the Resilience and Adaptation Program (RAP), who have not received training in ecology.

Prerequisites: Graduate student enrollment.

Lecture + Lab + Other: 1 + 0 + 0

ECON F623 Mathematical Economics

3 Credits

Offered As Demand Warrants

Mathematical techniques including matrix algebra, differential and integral calculus. Particular attention is given to static and comparative statics analysis and dynamic models.

Prerequisites: MATH F251X; graduate standing.

Lecture + Lab + Other: 3 + 0 + 0

ECON F626 Econometrics

3 Credits

Offered As Demand Warrants

Introduction to econometric theory. Single equation and multiple equation system estimation, including inference and hypothesis testing and results of assumption violation.

Prerequisites: ECON F227; MATH F251X; STAT F401; graduate standing.

Lecture + Lab + Other: 3 + 0 + 0

ECON F627 Advanced Econometrics

3 Credits

Offered As Demand Warrants

Advanced Econometrics is the second graduate econometrics course in the Ph.D. in Resource Economic program. This course builds upon the theoretical and empirical tools developed in ECON F626. Large sample theory and the Maximum Likelihood estimation theory are covered. Limited dependent variable models widely used in applied microeconomic modeling are developed and extended. Univariate and multivariate time series modeling and forecasting is developed.

Prerequisites: ECON F626; graduate standing.

Lecture + Lab + Other: 3 + 0 + 0

ECON F635 Renewable Resource Economics (a)

3 Credits

Offered As Demand Warrants

The theory, methods of analysis and current literature of natural resource economics and policy for fisheries, forests and wildlife. Topics include externalities, property rights, public goods, benefit-cost analysis, amenity values and other non-market resource services, and environmental policy.

Prerequisites: ECON F321; ECON F335; MATH F251X; graduate standing.

Lecture + Lab + Other: 3 + 0 + 0

ECON F636 Nonrenewable Resource Economics (a)

3 Credits

Offered As Demand Warrants

Exploration of issues relating to the mineral and energy markets. The analysis of energy and mineral use over time, capital investment problems and world market dynamics are explored. Topics include futures markets, present value, energy value and entropy.

Prerequisites: ECON F321; ECON F335; MATH F251X; graduate standing.

Lecture + Lab + Other: 3 + 0 + 0

ECON F637 Evolution of Conservation Concepts and Policy

3 Credits

Offered As Demand Warrants

Resource policy issues development and implementation including forestry, mining, fisheries, oil, wildlife and other topics as demand warrants. Focus on policy issues involved in management of Alaska's resources.

Prerequisites: Graduate standing.

Cross-listed with NRM F637.

Lecture + Lab + Other: 3 + 0 + 0

ECON F639 Energy Economics (a)

3 Credits

Offered As Demand Warrants

Market forces and institutions affecting the allocation of energy resources. Special attention to intertemporal allocative decisions and the role that public policy plays in influencing the rate at which energy resources are used over time.

Prerequisites: ECON F201X and ECON F202X or ECON F235X; graduate standing.

Stacked with ECON F439.

Lecture + Lab + Other: 3 + 0 + 0

ECON F647 Global to Local Sustainability

3 Credits

Offered As Demand Warrants

Explores the basic principles that govern resilience and change of ecological and social systems. Principles are applied across a range of scales from local communities to the globe. Working within and across each of these scales, students address the processes that influence ecological, cultural and economic sustainability, with an emphasis on northern examples.

Prerequisites: Graduate standing.

Cross-listed with ANTH F647; BIOL F647; NRM F647.

Lecture + Lab + Other: 3 + 0 + 0

ECON F649 Integrated Assessment and Adaptive Management

3 Credits

Offered As Demand Warrants

An interdisciplinary exploration of the theoretical and practical considerations of integrated assessment and adaptive management. Students survey concepts important in understanding societal and professional-level decision-making. Students work as individuals and as a team to undertake case studies with relevance to integrated assessment and adaptive management. Collectively, the class builds a portfolio of cases and conducts an integrated assessment.

Prerequisites: Graduate student standing in a natural science, social science or interdisciplinary program at UAF or another university.

Recommended: ANTH F647, BIOL F647, ECON F647, NRM F647; ANTH F667, BIOL F667, ECON F667, NRM F667.

Cross-listed with ANTH F649; BIOL F649; NRM F649.

Special Notes: In case of enrollment limit, priority will be given to graduate students in the Resilience and Adaptation Program in order for them to be able to meet their core requirements.

Lecture + Lab + Other: 3 + 0 + 0

ECON F667 Resilience Seminar I

1 Credit

Offered As Demand Warrants

Provides a forum for new students of the Resilience and Adaptation graduate program to explore issues of interdisciplinary research that are relevant to sustainability. A considerable portion of the seminar is student-directed, with students assuming leadership in planning seminar activities with the instructor.

Prerequisites: Enrolled in Resilience and Adaptation Graduate Program.

Recommended: ANTH F647, BIOL F647, ECON F647 or NRM F647 (taken concurrently).

Cross-listed with ANTH F667; BIOL F667; NRM F667.

Lecture + Lab + Other: 2 + 0 + 0

ECON F668 Resilience Seminar II

1 Credit

Offered As Demand Warrants

Provides a forum for new students of the Resilience and Adaptation graduate program to explore issues of interdisciplinary research relevant to sustainability. The seminar provides support to each student planning his/her summer internship and preparing and presenting a thesis research prospectus.

Prerequisites: ANTH F647, BIOL F647, ECON F647 or NRM F647; ANTH F667, BIOL F667, ECON F667 or NRM F667.

Cross-listed with ANTH F668; BIOL F668; NRM F668.

Lecture + Lab + Other: 2 + 0 + 0

ECON F670 Seminar in Research Methodology

1 Credit

Offered As Demand Warrants

Philosophy of research and importance of the scientific method to solution of research problems.

Prerequisites: Graduate standing.

Lecture + Lab + Other: 1 + 0 + 0

ECON F692 Seminar

1-12 Credits

Offered As Demand Warrants

Lecture + Lab + Other: 0 + 0 + 0

ECON F698 Non-thesis Research/Project

1-9 Credits

Offered As Demand Warrants

Lecture + Lab + Other: 0 + 0 + 0

ECON F699 Thesis

1-9 Credits

Offered As Demand Warrants

Lecture + Lab + Other: 0 + 0 + 0