**ECONOMICS**

Economics is the study of choice in a world with scarce resources. Students majoring in economics develop their analytical and problem-solving skills while exploring theories of economic systems and their application to a large number of fields. These fields range from finance and international trade to poverty reduction and environmental problems.

The BA program has core courses in theory and in quantitative and computer methods as well as a number of economics electives. If they wish, students can choose field electives relating to career tracks: business, banking and international economics, public policy or graduate school. In one of their final field courses, students develop and carry out a senior project that shows their ability to apply what they have learned, both analytically and quantitatively. For potential employers, it provides an important demonstration of what an economics graduate can do.

Graduates are employed in both the private and public sectors in a wide range of careers. For example they can be found as financial analysts, management trainees, human resource managers, city and state economists, bank examiners or health care administrators. An economics degree is an excellent background for entrance into professional programs such as law or the MBA. A joint major is a very useful option for students studying in other fields.

The BBA in Business Data Analytics degree is designed to meet the growing demand for professionals who can gather, sort and interpret large amounts of data to help businesses solve problems and operate more effectively.

This STEM-designated program combines coursework in business, economics and data analytics to provide students the knowledge, skills and hands-on experience needed to develop data-driven solutions in finance, insurance and other industries.

- Economics, BA ([bulletin.uakron.edu/undergraduate/colleges-programs/business-administration/economics/economics-ba](https://bulletin.uakron.edu/undergraduate/colleges-programs/business-administration/economics/economics-ba))
- Economics, Minor ([bulletin.uakron.edu/undergraduate/colleges-programs/business-administration/economics/economics-minor](https://bulletin.uakron.edu/undergraduate/colleges-programs/business-administration/economics/economics-minor))

**3250:100 Introduction to Economics (3 Credits)**

May not be substituted for 3250:200, 3250:201, or 3250:244. Economics primarily concerned in a broad social science context. Adequate amount of basic theory introduced. Cannot be used to satisfy major or minor requirements in economics.

**Gen Ed:** Tier 2 - Social Science

**3250:200 Principles of Microeconomics (3 Credits)**

Analysis of behavior of the firm and household, and their impact on resource allocation, output and market price. No credit if 3250:244 already taken.

**Gen Ed:** Tier 2 - Social Science

**3250:201 Principles of Macroeconomics (3 Credits)**

Prerequisite: 3250:200. Study of the economic factors which affect the price level, national income, employment, economic growth. No credit if 3250:244 already taken.

**3250:202 Principles of Macroeconomics II (3 Credits)**

Prerequisite: 3250:201. Study of macroeconomic factors which affect the price level, national income, employment, economic growth. No credit if 3250:244 already taken.

**3250:226 Computer Skills for Economic Analysis (3 Credits)**

Prerequisites: 3250:100 or 3250:200 or 3250:244. Application of word processing, spreadsheets, presentation packages, SAS, the Internet, library resources, and other computer tools in communicating economic analysis.

**Gen Ed:** Tier 3 - Critical Thinking

**3250:230 Economics of Social Policy Issues (3 Credits)**

Prerequisite: 3250:100, or 3250:200 and 3250:201, or 3250:244 or permission of the instructor. Investigation of selected labor and social policy issues. Examples include health care, economic demography, anti-poverty programs, immigration, discrimination, and the impact of unemployment and inflation.

**3250:244 Introduction to Economic Analysis (3 Credits)**


**Gen Ed:** Tier 2 - Social Science

**3250:310 Managerial Economics (3 Credits)**

Prerequisites: 3250:200 or 3250:244, 3470:261, 3470:262. Application of economic analysis to management problems; the organization of enterprises and the allocation of their resources; decision making under uncertainty; strategic behavior.

**3250:325 Applied Econometrics I (3 Credits)**

Prerequisites: [3470:261 and 3470:262] or 6500:304. Students learn SAS coding and the foundations of data science. Course covers multiple regression estimation and inference analysis and concludes with a team-based research paper.

**3250:326 Applied Econometrics II (3 Credits)**

Prerequisite: 3250:325. Violations of the classical assumptions of the regression model and corrections are explored along with regression analysis of time series data. Culminates with a research paper.

**3250:330 Labor Problems (3 Credits)**

Prerequisites: [3250:200, or 3250:201, or 3250:244]. Labor economics, principles and public policy. Study of structure of labor market and impact unions have on labor management relations.

**3250:333 Labor Economics (3 Credits)**

Prerequisite: 3250:200 or 3250:244. Theoretical tools used in analysis of problems of labor in any modern economic system. Emphasis given to examination of determinants of demand for and supply of labor.

**3250:360 Industrial Organization & Public Policy (3 Credits)**

Prerequisites: 3250:200 or 3250:244. Role of industrial structure and firm conduct in performance of industry and way in which antitrust policy is designed to provide remedies where performance is unsatisfactory.

**3250:380 Money & Banking (3 Credits)**

Prerequisite: 3250:201. Institutions of money, banking and credit, monetary expansion and contraction, public policies affecting this process, development of our money and banking system.

**Gen Ed:** Tier 3 - Critical Thinking

**3250:385 Economics of Natural Resources & the Environment (3 Credits)**

Prerequisites: [3250:100 or 3250:200 or 3250:244] or permission. Introduction to economic analysis of use of natural resources and economics of environment. Problems of water and air pollution, natural environments, natural resource scarcity, conservation, economic growth.

**Gen Ed:** Tier 3 - Complex Systems
3250:400 Intermediate Macroeconomics (3 Credits)
Prerequisites: 3250:201 and [3450:145 or higher math]. Changes in national income, production, employment, price levels, long-range economic growth, short-term fluctuations of economic activity.
Gen Ed: Tier 3 - Critical Thinking

3250:405 Economics of the Public Sector (3 Credits)
Prerequisites: [3250:200 and 3250:201] or 3250:244. Considers nature and scope of government activity, rationale for government intervention, problems of public choice, taxation and revenue-raising, cost-benefit analysis, program development and evaluation.

3250:406 State & Local Public Finance (3 Credits)
Prerequisite: 3250:410; recommended: 3250:405. Examines economic rationale and problems for provision of goods and services by different governmental units. Considers alternative revenue sources and special topics.

3250:410 Intermediate Microeconomics (3 Credits)
Prerequisites: [3250:200 or 3250:244] and [3450:145 or higher math]. Advanced analysis of consumer demand, production costs, market structures, determinants of factor income.
Gen Ed: Tier 3 - Critical Thinking

3250:415 Cost-Benefit Analysis (3 Credits)
Prerequisites: [3250:200 and 3250:201] or 3250:244. Introduction to tool for public project evaluation. Includes development of analytical framework and methods of determining benefits and costs over time. Stresses application of techniques.

3250:423 Applied Game Theory (3 Credits)
Prerequisite: 3250:200. Application of the basic concepts of game theory (analysis of strategic behavior) to relevant economics issues including bargaining, cartels, voting, conflict resolution and non-competitive pricing.

3250:426 Applied Econometrics (3 Credits)
Prerequisites: 3470:261, 3470:262, and [3250:200 and 3250:201] or 3250:244. Application of regression analysis to economic and social sciences data. Discusses typical problems from applied research, including estimation technique, hypothesis testing, and modeling framework.
Gen Ed: Tier 3 - Critical Thinking

3250:427 Economic Forecasting (3 Credits)
Prerequisites: 3470:261, 3470:262, and [3250:200 and 3250:201] or 3250:244. Methods for building, identifying, fitting and checking dynamic economic models and use of these models for forecasting. Emphasis on application of available computer software systems.

3250:430 Labor Market and Social Policy (3 Credits)
Prerequisite: [3250:200 and 3250:201] or 3250:244 or permission of instructor. Intensive study of current labor and social policy issues (e.g., discrimination, poverty, migration, education, demographic and labor market changes, impact of international trade on employment).
Gen Ed: Tier 3 - Complex Systems

3250:432 Economics & Practice of Collective Bargaining (3 Credits)
Prerequisite: 3250:200 or 3250:244. Principles and organization of collective bargaining, collective bargaining agreements, issues presented in labor disputes and settlements, union status and security, wage scales, technological change, production standards, etc.

3250:434 Labor Market Analysis and Evaluation (3 Credits)
Prerequisites: 3250:410, 3250:426, 3250:430. Applied labor market research using specialized techniques. Employment, health, education, and other current policy issues and programs analyzed and evaluated. Original research project required.

3250:436 Health Economics (3 Credits)
Prerequisites: 3250:100 or 3250:200 or 3250:244 or permission of instructor. Economic analysis of health care. Stresses health policy issues, includes study of demand and supply of medical services and insurance, analysis of health care industries.

3250:438 Economics of Sports (3 Credits)
Prerequisites: 3250:100 or 3250:200 or 3250:244 or permission of instructor. Sports franchises as profit maximizing firms; costs and benefits of a franchise to a city; labor markets in professional sports; the economics of college sports.

3250:440 Special Topics in Economics (3 Credits)
Prerequisite: Permission. Opportunity to study special topics and current issues in economics.

3250:460 Economics of Developing Countries (3 Credits)
Prerequisites: [3250:200 and 3250:201] or 3250:244. Basic problems in economic development. Theories of economic development, issues of political economy and institutions. Topics include poverty, population, migration, employment, finance, international trade and environment.
Gen Ed: Tier 3 - Global Diversity

3250:461 Principles of International Economics (3 Credits)
Prerequisites: [3250:200 and 3250:201] or 3250:244, or permission of the Economics department. International trade and foreign exchange, policies of free and controlled trade, international monetary problems.

3250:475 Development of Economic Thought (3 Credits)
Prerequisites: [3250:200 and 3250:201] or 3250:244, or permission of the Economics department. Evolution of theory and method, relation of ideas of economists contemporary to conditions.

3250:481 Monetary & Banking Policy (3 Credits)
Prerequisites: 3250:380, 3250:400; or permission of the Economics department. Control over currency and credit, policies of control by central banks and governments, United States Treasury and Federal Reserve System.

3250:487 Urban Economics: Theory & Policy (3 Credits)
Prerequisites: [3250:200 and 3250:201] or 3250:244, or permission of instructor. Analysis of urban issues from an economic perspective. Emphasis on urban growth, land-use patterns, housing, income distribution, poverty and urban fiscal policy.
Gen Ed: Tier 3 - Domestic Diversity

3250:490 Individual Study in Economics (1-3 Credits)
(May be repeated for a total of six credits) Prerequisite: Permission of instructor. Independent study in economics under supervision and evaluation of selected faculty member.

3250:491 Workshop: Economics (1-3 Credits)
(May be repeated) Prerequisite: Permission of the Economics department. Group studies of special topics in economics. May not be used to meet undergraduate or graduate major requirements in economics. May be used for elective credit only.

3250:495 Internship in Economics (1-3 Credits)
Prerequisites: 3250:200, 3250:201 and at least three additional courses in economics at the 300- or 400-level. Supervised placement in appropriate position in public or private sector organizations. Reports and written assignments required.
3250:496 Senior Project in Economics (2 Credits)
Prerequisites: 3250:400, 3250:410, 3250:426. Corequisites: 3250:405 or 3250:423 or 3250:430 or 3250:460 or 3250:461 or 3250:475 or 3250:481 or 3250:487. Taken concurrently with or following a 400-level field Economics course. Involves independent out-of-class work on a project designed in consultation with the designated 400-level course instructor.

3250:497 Honors Project in Economics (1-3 Credits)
(May be repeated for a total of six credits) Prerequisite: Senior standing in Honors College. Individual senior honors thesis on a creative project relevant to economics, approved and supervised by faculty member of the department.

3250:506 State & Local Public Finance (3 Credits)
Prerequisite: Admission to the master’s program in Economics or permission. Examines economic rationale and problems for provision of goods and services by different governmental units. Considers alternative revenue sources and special topics.

3250:515 Cost-Benefit Analysis (3 Credits)
Prerequisites: Admission to the master’s program in Economics or permission. Introduction to tool for public project evaluation. Includes development of analytical framework and methods of determining benefits and costs over time. Stresses application of techniques.

3250:523 Applied Game Theory (3 Credits)
Prerequisite: Admission to the master’s program in Economics or permission. Application of the basic concepts of game theory (analysis of strategic behavior) to relevant economics issues including bargaining, cartels, voting, conflict resolution and non-competitive pricing.

3250:527 Economic Forecasting (3 Credits)
Prerequisite: Admission to the master’s program in Economics or permission. Study of methods for building, identifying, fitting and checking dynamic economic models and use of these models for forecasting. Emphasis is on the application of available computer software systems.

3250:530 Labor Market and Social Policy (3 Credits)
Prerequisite: Admission to the master’s program in Economics or permission. Intensive study of current labor and social policy issues (e.g., discrimination, poverty, migration, education, demographic and labor market changes, impact of international trade on employment).

3250:536 Health Economics (3 Credits)
Prerequisite: permission of instructor. Economic analysis of health care. Stresses health policy issues, includes study of demand and supply of medical services and insurance, analysis of health care industries.

3250:538 Economics of Sports (3 Credits)
Prerequisite: permission of instructor. Sports franchises as profit maximizing firms; costs and benefits of a franchise to a city; labor markets in professional sports; the economics of college sports.

3250:540 Special Topics in Economics (3 Credits)
Prerequisite: permission. Opportunity to study special topics and current issues in economics.

3250:560 Economics of Developing Countries (3 Credits)
Prerequisite: Admission to the master’s program in Economics or permission. Basic problems of economic development. Theories of economic development, issues of political economy and institutions. Topics include poverty, population, migration, employment, finance, international trade, environment.

3250:561 Principles of International Economics (3 Credits)
Prerequisite: Admission to master’s program in Economics or permission. International trade and foreign exchange, policies of free and controlled trade, international monetary problems.

3250:575 Development of Economic Thought (3 Credits)
Prerequisite: Admission to the master’s program in Economics or permission. Evolution of theory and method, relation of ideas of economists contemporary to conditions.

3250:581 Monetary & Banking Policy (3 Credits)
Prerequisite: Admission to the master’s program in Economics or permission. Control over currency and credit, policies of control by central banks and governments, United States Treasury and Federal Reserve System.

3250:587 Urban Economics: Theory & Policy (3 Credits)
Prerequisite: Admission to the master’s program in Economics or permission. Analysis of urban issues from an economic perspective. Emphasis on urban growth, land-use patterns, housing, income distribution, poverty and urban fiscal policy.

3250:591 Workshop in Economics (1-3 Credits)
(May be repeated) Group studies of special topics in economics. May not be used to meet undergraduate or graduate major requirements in economics. May be used for elective credit only.

3250:600 Foundations of Economic Analysis (3 Credits)
Prerequisite: graduate standing. Determination of national income, employment and price level; aggregate consumption, investment and asset holding; decision problems faced by household and firm. Partial equilibrium and analysis of competition and monopoly and general equilibrium analysis. May not be substituted for 602, 603, 611, or applied toward the 30 graduate credits required for M.A. in economics.

3250:602 Macroeconomic Analysis I (3 Credits)
Prerequisite: Admission to the master’s program in economics or permission of the department. Construction of static macroeconomic models. Analysis predominantly in terms of comparative statistics with only relatively brief mention of dynamic models.

3250:606 Economics of the Public Sector (3 Credits)
Prerequisite: Admission to the master’s program in economics or permission of the department. Examination of public sector economies emphasizes public revenues, public expenditures. Develops objectives of taxation, welfare aspects of the public sector, theory of public goods. Considers specific taxes, cost-benefit analysis, expenditures analysis, fiscal federalism.

3250:610 Framework of Economic Analysis (3 Credits)
Prerequisite: graduate standing. Development of theoretical and analytical framework for decision making. Discussion of applications of the framework to situations concerning demand, cost, supply, production, price, employment and wage.

3250:611 Microeconomic Theory I (3 Credits)
Prerequisite: Admission to the master’s program in economics or permission of the department. Modern theory of consumer behavior and of the firm. Determination of market prices. Optimization models, establishment of criteria for productive, allocative and distributive efficiency.

3250:615 Industrial Organization (3 Credits)
Prerequisite: 3250:611 or permission. Examines link between market structure, firm conduct and economic performance. Measurement and effects of monopoly power, industrial concentration and changes.
3250:617 Economics of Regulation (3 Credits)
Prerequisite: 3250:615 or permission of instructor. Examines rationale, methods and success of government regulation of public utility, transportation and communications industries.

3250:620 Application of Mathematical Models to Economics (3 Credits)
Prerequisite: Admission to the master's program in economics or permission of the department. Review of selected topics of differential and integral calculus and their application to economic analysis. Theory of optimization in production and consumption; static macroeconomic models. Analysis of growth and stability.

3250:621 Application of Linear Models in Economic Analysis (3 Credits)
Prerequisite: Admission to the master's program in economics or permission of the department. Review of selected topics of linear algebra application to economic theory. Static open and closed input-output tables, dynamic models, consumption technology and theory of demands, linear programming, general equilibrium analysis.

3250:626 Applied Econometrics I (3 Credits)
Prerequisite: Admission to the master's program in economics or permission of the department. Students will learn statistical methods and standard econometric tools by reading and conducting empirical research requiring problem articulation, data assembly and appropriate model specification.

3250:627 Applied Econometrics II (3 Credits)
Prerequisite: 3250:626 or equivalent. Students will learn advanced econometric topics, continuing to build on modeling, interpretation, and evaluation skills through economic problems, culminating in an empirical research paper.

3250:628 Seminar in Research Methods (3 Credits)
Prerequisite: Admission to the master's program in economics or permission of the department. A seminar in the research use of applied mathematical economics or econometrics. Emphasis is on individual development of a theoretical proposition or research statement, its empirical examination and policy implications.

3250:633 Theory of Wages & Employment (3 Credits)
Prerequisite: Admission to the master's program in economics or permission of the department. Analytical approach to integration of economic theory with observed labor market phenomena. Discussion of wage and employment theories, effects of unions, collective bargaining theories and effects of government regulation.

3250:640 Special Topics in Economics (3 Credits)
Prerequisite: Admission to the Master's Program in economics or permission of department. Opportunity to study special topics and current issues in economics at an advanced level. Repeatable with permission of instructor.

3250:664 Seminar on Economic Growth & Development (3 Credits)
Prerequisite: Admission to the master's program in economics or permission of the department. Review of main theories of economic growth since age of classical economics. Problems in development of emerging countries. Discussion of aggregative macro-models of capital formation, investment, technology and external trade.

3250:666 Seminar on Regional Economic Analysis & Development (3 Credits)
Prerequisite: Admission to the master's program in economics or permission of the department. Study of a particular national or international regional development. Any one or a combination of following regions may be considered: Middle East, North Africa, areas within Latin America, Southern Europe, Southeast Asia or Eastern Europe.

3250:670 International Monetary Economics (3 Credits)
Prerequisite: Admission to the master's program in economics or permission of the department. International financial relations. Foreign exchange market and exchange rate adjustments. Balance of payments adjustment policies. International monetary system.

3250:671 International Trade (3 Credits)
Prerequisite: Admission to the master's program in economics or permission of the department. Traditional trade theory. Recent developments in trade theory, policy implications in trade relations among developed and developing economics.

3250:683 Monetary Economics (3 Credits)
Prerequisite: Admission to the master's program in economics or permission of the department. Intensive study of important areas of monetary theory. Emphasis on integration of money and value theory among other areas, plus some pressing policy issues.

3250:695 Graduate Internship in Economics (1-3 Credits)
Prerequisites: Eighteen credit hours of economics graduate courses. Career application of student's graduate coursework. Supervisor reports and assignments required. May be repeated for a maximum of three credits.

3250:697 Reading in Advanced Economics (1-4 Credits)
(A maximum of six credits may be applied toward the master's degree in economics.) Prerequisite: Admission to the master's program in economics or permission of the department. Intensive investigation of selected problem area in advanced economics under supervision of instructor. Since the subject matter is decided upon in each case, the course may be taken repeatedly for credit.

3250:698 Reading in Advanced Economics (1-4 Credits)
(A maximum of six credits may be applied toward the master's degree in economics.) Prerequisite: Admission to the master's program in economics or permission of the department. Intensive investigation of selected problem area in advanced economics under supervision of instructor. Since the subject matter is decided upon in each case, the course may be taken repeatedly for credit.

3250:699 Master's Thesis (3 Credits)
(May be repeated for a total of six credits)