

# Economics (ECON)

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## **ECON 1001 Introduction to Economics (3 credits)**

An introductory survey of economic issues for non-majors with an emphasis on using economic concepts as elements of critical reasoning.

Microeconomic topics include markets and the role of government in a market economy. Macroeconomic topics include the banking system, inflation and unemployment. International issues include the balance of trade and foreign exchange. Will not be counted towards the Economics major.

*Prerequisite:* Not enrolled in the College of Business Administration.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%201001>)

## **ECON 1103 Principles of Microeconomics (3 credits)**

Institutions and processes of market specialization and exchange. Supply and demand and their determinants. Pricing and production decisions of the firm under varying competitive conditions. The role of government in a modern mixed economy. Microeconomic analysis applied to selected economic problems.

*Level of Study:* Undergraduate

*Interdisciplinary Studies:* Applied Mathematics Economics, Environmental Studies, International Affairs, Public History

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%201103>)

## **ECON 1103H Honors Principles of Microeconomics (3 credits)**

Institutions and processes of market specialization and exchange. Supply and demand and their determinants. Pricing and production decisions of the firm under varying competitive conditions. The role of government in a modern mixed economy. Microeconomic analysis applied to selected economic problems. As an Honors Program course, includes a more intensive research or project component.

*Prerequisite:* Admission to Marquette University Honors Program.

*Level of Study:* Undergraduate

*Interdisciplinary Studies:* Applied Mathematics Economics, Environmental Studies, International Affairs, Public History

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%201103H>)

## **ECON 1104 Principles of Macroeconomics (3 credits)**

Processes and determinants of overall economic activity and growth. National income accounting, determination of aggregate income, employment, and the price level. Money and banking, government monetary and fiscal policy, and international economics.

*Prerequisite:* ECON 1103.

*Level of Study:* Undergraduate

*Marquette Core Curriculum:* SSC Expanding Our Horizons

*Interdisciplinary Studies:* Applied Mathematics Economics, Environmental Studies, International Affairs

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%201104>)

## **ECON 1104H Honors Principles of Macroeconomics (3 credits)**

Processes and determinants of overall economic activity and growth. National income accounting, determination of aggregate income, employment, and the price level. Money and banking, government monetary and fiscal policy, and international economics. As an Honors Program course, includes a more intensive research or project component.

*Prerequisite:* ECON 1103 and admission to Marquette University Honors Program.

*Level of Study:* Undergraduate

*Interdisciplinary Studies:* Environmental Studies

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%201104H>)

## **ECON 1930 Special Topics in Economics (1-3 credits)**

Offered as an experimental course to evaluate and determine if a course should be incorporated into the regular curriculum of a program, or courses in the approval process pipeline, but not yet officially approved. Once the same course has been offered twice as a Special Topic, it cannot be offered again until it moves through the curriculum approval process and is approved with a regular curriculum course number. Consent required.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%201930>)

## **ECON 3003 Intermediate Microeconomic Analysis (3 credits)**

Reviews the tools of supply and demand analysis. Studies the market behavior of consumers and business firms and the way they interact with each other and with public policy. Applies market theory to questions of resource allocation efficiency, changing market conditions, optimal pricing and output strategies and to important social issues of the day.

*Prerequisite:* ECON 1103; ECON 1104; MATH 1400 or equiv.

*Level of Study:* Undergraduate

*Interdisciplinary Studies:* Applied Mathematics Economics, Environmental Studies

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%203003>)

**ECON 3004 Intermediate Macroeconomic Analysis (3 credits)**

Determines levels of aggregate output, employment and prices. Describes available policy variables and their impacts upon the money, bond, goods and labor markets. Looks at inflation and unemployment, international macroeconomic interrelationships and fundamentals of the economic growth process.

*Prerequisite:* ECON 1103; ECON 1104; MATH 1400 or equiv.

*Level of Study:* Undergraduate

*Interdisciplinary Studies:* Applied Mathematics Economics

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%203004>)

**ECON 3042 Applied Global Business Learning (AGBL) - Micro Business Virtual Consulting Experience (3 credits)**

An opportunity to experience real time consulting virtually with struggling businesses around the world. Each class connects students, faculty and business leaders with motivated entrepreneurs in the developing world. Students foster sustainable business solutions while preserving cultural ideals with the ultimate goal of improving the lives of those involved in the small business or micro-enterprises. Applied Global Business Learning is a chance for students of all majors to gain experience with developing country businesses and engage in a unique cultural understanding.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

*Marquette Core Curriculum:* SSC Crossing Boundaries

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%203042>)

**ECON 3399 The College Fed Challenge (0-3 credits)**

Students apply their understanding of economics and financial markets using oral communication and visualization skills as part of the College Fed Challenge competition. Preparation includes analysis of the domestic and global economies and financial markets; presentation requires real-time application of problem-solving and critical thinking skills.

*Prerequisite:* ECON 3004, Jr. stdng.; ECON, BUEC or INAM major or ECON minor; and cons. of instr. Consent required.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%203399>)

**ECON 3986 Internship Work Period (0 credits)**

S/U grade assessment.

*Prerequisite:* ECON 3003; cons. of prog. dir. and cons. of Business Career Center. Consent required.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%203986>)

**ECON 4005 Sports Economics (3 credits)**

Application of relevant statistical tools and economic models to the economics of sports. One major aspect applies those tools and models to investigate the behavior of athletes and coaches. A second major aspect deals with business aspects of sports, including topics such as the organization of sports franchises and leagues, the public financing of stadiums, and labor issues including compensation and discrimination.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204005>)

**ECON 4006 Industrial Organization (3 credits)**

Examines the interaction of firms with their competitors, their customers and government regulators. Covers oligopoly models that lie between the extremes of perfect competition and perfect monopoly. Additional topics may include the economic analysis of price discrimination, durable goods, advertising, mergers, vertical integration, collusion, auctions and innovation.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204006>)

**ECON 4008 Economics and Law (3 credits)**

Relationship between the rights and obligations which the legal system confers on individuals and the allocation of resources which results from alternative assignments of legal rights. Uses and limitations of economic analysis in explaining the process by which legal rights are conferred.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204008>)

**ECON 4010 Public Finance (3 credits)**

Role of government in a market-oriented economy. Externalities, public goods and political decision-making. Analysis of major federal spending programs including social security, health care and welfare. Effects of government expenditure and tax policies on efficiency in the allocation of resources and on the distribution of income. Principles of taxation, budget deficits and the financing of public expenditures.

*Prerequisite:* ECON 1103, ECON 1104 and ECON 3003.

*Level of Study:* Undergraduate

*Marquette Core Curriculum:* SSC Individuals & Communities

*Interdisciplinary Studies:* Urban Affairs

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204010>)

**ECON 4012 Urban and Regional Economics (3 credits)**

Economic role of cities and systems of cities. Forces behind regional and urban growth. Explaining migration and employment changes. The role of quality of life in cities. Problems of central city economic decline, urban poverty, housing problems, and urban transportation. Suburbanization and urban sprawl.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

*Interdisciplinary Studies:* Africana Studies, Environmental Studies, Urban Affairs

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204012>)

**ECON 4016 Environmental and Natural Resource Economics (3 credits)**

Economic analysis of environmental and natural resources including land, air, and water. Topics covered include, but are not limited to, cost-benefit analysis, discounting, externalities, market failure, optimality, property rights, and sustainability. Special emphasis on application of these concepts to environmental and natural resource policies.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

*Marquette Core Curriculum:* SSC Expanding Our Horizons

*Interdisciplinary Studies:* Environmental Studies, Environmental Ethics, International Affairs, Peace Studies, Urban Affairs

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204016>)

**ECON 4020 Economics of Labor Markets (3 credits)**

Studies the major determinants of the individual's decision to work and the firm's decision to hire workers. Analyzes labor supply and labor demand to understand what determines earnings, the reasons for unemployment and how the labor market evolves over time. Contemporary issues studied in this course include the effects of the minimum wage, the causes of earnings inequality and poverty and the economics of discrimination. Presents data and discussion of the evolution of institutions to provide context to these current economic issues.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

*Marquette Core Curriculum:* SSC Individuals & Communities

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204020>)

**ECON 4022 Economics of Healthcare and Health Policy (3 credits)**

An introduction to healthcare and health policy from an economics perspective. Studies how supply and demand factors impact healthcare financing, markets for healthcare, health insurance and access to health services. Considers the features unique to healthcare markets and explores the role of economic incentives in driving healthcare behaviors. Additionally, covers government institutions and their influence on current healthcare issues and policy with a particular emphasis on the United States healthcare system.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

*Marquette Core Curriculum:* SSC Basic Needs & Justice

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204022>)

**ECON 4025 Economics of Regulation and Deregulation (3 credits)**

An introduction to regulation and deregulation from an economics perspective. A review of the regulatory process, regulatory agency administration, trade association roles, independent think-tank assessments and consumer implications, and economic analysis requirements. Case study topics may include, but are not limited to, healthcare, artificial intelligence, transportation, telecommunications and environmental sectors. A Washington D.C. experiential learning trip to Marquette's Les Aspin Center to engage with experts is a mandatory component of the course.

*Prerequisite:* ECON 1103 and ECON 1104. Consent required. Consent required.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204025>)

**ECON 4030 American Economic History (3 credits)**

Explores the development of the American economy from colonial times to the present. Students learn about both the history of the U.S. economy, as well as methods and data needed to assess how historic events can answer important questions in economics. Topics may include, but are not limited to historical and institutional foundations of US economic growth; immigration; inequality and intergenerational mobility; women's changing role in the economy.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204030>)

**ECON 4040 International Economics (3 credits)**

Survey of international economics. Topics covered include the role of globalization in current economic decisions, the role of monopolies in global markets leading to potential for abuse, the history of money and monetary policy and its influence on global markets, the ability of a financial crisis to debilitate an economy, the struggles of peoples in crisis, and an appreciation of the complexities in modern government decision making.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

*Marquette Core Curriculum:* SSC Crossing Boundaries

*Interdisciplinary Studies:* International Affairs

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204040>)

**ECON 4044 Global Integration of Financial Sectors (3 credits)**

As the world gets smaller, exchange rate management and policies as well as their international coordination and conflict become increasingly important. With the context of current issues, the application of market concepts are used to understand institutional behavior as well as investment decisions. Ideas include historical context and application to financial and/or economic crises around the globe. Note: A student may not receive credit for ECON 4040 if taken simultaneously with or upon successful completion of ECON 4044.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

*Interdisciplinary Studies:* International Affairs

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204044>)

**ECON 4045 Comparative Economic Systems (3 credits)**

An analysis and description of economies as they evolved from ancient societies through today. Analyze the effects of alternative systems on social and economic behavior under differing levels of technology and development. Compare the economic behavior and policy between socialistic markets and capitalistic markets as the development reaches present-day levels.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204045>)

**ECON 4046 International Trade (3 credits)**

Examines the sources, patterns, and effects of international trade. Also studies the welfare impacts of trade policies and the influence of trade on economic growth. Additional topics include foreign direct investment, migration, and the role of regional trade agreements in shaping global trade dynamics.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

*Interdisciplinary Studies:* International Affairs

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204046>)

**ECON 4047 Development Economics (3 credits)**

Development economics considers the current conditions under which the majority of the world lives. From the context of the UN development goals, consider the similarities among these nations from their inception as well as the myriad of problems that have evolved. Consider why current economic models cannot provide a magic solution to the issues and gives students a chance to create their own solutions to problems they find.

*Prerequisite:* ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

*Marquette Core Curriculum:* SSC Basic Needs & Justice

*Interdisciplinary Studies:* Environmental Studies, Latin American Studies, Peace Studies

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204047>)

**ECON 4060 Introduction to Econometrics (3 credits)**

Designed to teach how to build an econometric model and to make forecasts using it. Models are constructed to explain phenomena that are observed frequently in business, economics and the social sciences. Linear regression analysis is employed and both single-equation and multi-equation models are investigated. Of practical value to economists, businessmen, engineers, statisticians, and other professionals for whom applied quantitative techniques are important.

*Prerequisite:* ECON 3003; and BUAD 1560 or MATH 1700 or MATH 4720 or equiv.

*Level of Study:* Undergraduate

*Marquette Core Curriculum:* NSM Expanding Our Horizons

*Interdisciplinary Studies:* Applied Mathematics Economics

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204060>)

**ECON 4065 Mathematical Economics (3 credits)**

Designed to give students the quantitative background required to appreciate the use of mathematics in economic analysis. Emphasis is on developing important techniques. However, many economic applications are incorporated in order to demonstrate how standard economic models can be developed in mathematical terms. Topics include matrix algebra, differential calculus, both constrained and unconstrained optimization and comparative statistics.

*Prerequisite:* ECON 3003 and one of the following: MATH 1400, MATH 1410, MATH 1450, MATH 1451, MATH 1455 or MATH 2450.

*Level of Study:* Undergraduate

*Interdisciplinary Studies:* Applied Mathematics Economics

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204065>)

**ECON 4072 Behavioral Economics (3 credits)**

An introduction to behavioral economics. Traditional economic models assume that people have perfect rationality and perfectly process all available information. Behavioral economics relaxes some of the assumptions made about people to reconcile traditional models with real world observations. Coverage of behavioral economic theory is presented by emphasizing empirical results from lab experiments and the real world, and investigating some public policy implications.

*Prerequisite:* ECON 3003.

*Level of Study:* Undergraduate

*Marquette Core Curriculum:* SSC Expanding Our Horizons

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204072>)

**ECON 4080 Money, Banking and Monetary Policy (3 credits)**

Introduces the fundamentals of money, banking, and monetary policy. Studies the role of money, interest rates, and financial institutions in the economy. Details the structure of central banks, their importance, and how they conduct monetary policy. Uses various macroeconomic models and data to analyze current and past economic events.

*Prerequisite:* ECON 3004.

*Level of Study:* Undergraduate

*Interdisciplinary Studies:* International Affairs

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204080>)

**ECON 4931 Topics in Economics (1-3 credits)**

Lectures and discussions in an area which, because of its topicality, is not the subject of a regular course. Topics are designated in the Schedule of Classes.

*Prerequisite:* Jr. stndg.; ECON 1103 and ECON 1104.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204931>)

**ECON 4986 Economics Internship - Grading Period (3 credits)**

S/U grade assessment.

*Prerequisite:* ECON 3986, cons. of prog. dir. and cons. of Business Career Center Consent required.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204986>)

**ECON 4989 Economics Internship - Work and Grading Period (3 credits)**

S/U grade assessment.

*Prerequisite:* ECON 3003; cons. of prog. dir. and cons. of Business Career Center. Consent required.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204989>)

**ECON 4995 Independent Study in Economics (1-4 credits)**

Faculty-supervised, independent study/research of a specific area or topic in economics.

*Prerequisite:* Cons. of dept. ch. Consent required.

*Level of Study:* Undergraduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%204995>)

**ECON 5005 Sports Economics (3 credits)**

Application of relevant statistical tools and economic models to the economics of sports. One major aspect applies those tools and models to investigate the behavior of athletes and coaches. A second major aspect deals with business aspects of sports, including topics such as the organization of sports franchises and leagues, the public financing of stadiums, and labor issues including compensation and discrimination.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%205005>)



**ECON 5008 Economics and Law (3 credits)**

Relationship between the rights and obligations which the legal system confers on individuals and the allocation of resources which results from alternative assignments of legal rights. Uses and limitations of economic analysis in explaining the process by which legal rights are conferred.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%205008>)

**ECON 5016 Environmental and Natural Resource Economics (3 credits)**

Economic analysis of environmental and natural resources including land, air, and water. Topics covered include, but are not limited to, cost-benefit analysis, discounting, externalities, market failure, optimality, property rights, and sustainability. Special emphasis on application of these concepts to environmental and natural resource policies.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

*Marquette Core Curriculum:* SSC Expanding Our Horizons

*Interdisciplinary Studies:* Environmental Studies, Environmental Ethics, International Affairs, Peace Studies, Urban Affairs

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%205016>)

**ECON 5040 International Economics (3 credits)**

Survey of international economics. Topics covered include the role of globalization in current economic decisions, the role of monopolies in global markets leading to potential for abuse, the history of money and monetary policy and its influence on global markets, the ability of a financial crisis to debilitate an economy, the struggles of peoples in crisis, and an appreciation of the complexities in modern government decision making.

*Prerequisite:* Admitted to the graduate ECON program; or consent of the M.S.A.E. prog. dir.

*Level of Study:* Graduate

*Marquette Core Curriculum:* SSC Crossing Boundaries

*Interdisciplinary Studies:* International Affairs

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%205040>)

**ECON 5045 Comparative Economic Systems (3 credits)**

An analysis and description of economies as they evolved from ancient societies through today. Analyze the effects of alternative systems on social and economic behavior under differing levels of technology and development. Compare the economic behavior and policy between socialistic markets and capitalistic markets as the development reaches present-day levels.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%205045>)

**ECON 5072 Behavioral Economics (3 credits)**

An introduction to behavioral economics. Traditional economic models assume that people have perfect rationality and perfectly process all available information. Behavioral economics relaxes some of the assumptions made about people to reconcile traditional models with real world observations. Coverage of behavioral economic theory is presented by emphasizing empirical results from lab experiments and the real world, and investigating some public policy implications.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

*Marquette Core Curriculum:* SSC Expanding Our Horizons

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%205072>)

**ECON 5931 Topics in Economics (1-3 credits)**

Lectures and discussions in an area which, because of its topicality, is not the subject of a regular course. Topics are designated in the Schedule of Classes.

*Prerequisite:* Admitted to BUAD, ECON, FINA, or NURS program; or cons. of M.B.A. prog. dir. Prerequisites vary depending on topic.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%205931>)

**ECON 6114 R Programming (1 credits)**

Explores the basic building blocks of statistical programming in R. Focuses on three parallel learning objectives: setting up an open-source software environment for practicing data science; translation of ideas to software solutions using R; and management and sharing of code.

*Prerequisite:* Admitted to the graduate ACCO, BMAN, BUAD, ECON or FINA program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206114>)

**ECON 6115 Research Methods in Economics (1 credits)**

Provides skill sets to select research topic for professional project; provides guidance in strategies used in research, writing and presentation components.

*Prerequisite:* Admitted to graduate ECON; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206115>)

**ECON 6116 SQL (1 credits)**

Fundamentals of the creation and use of databases using the programming platform Structured Query Language (SQL). Students learn to customize and manipulate databases with SQL to help gather data for presentations and analyses.

*Prerequisite:* Admitted to the graduate ACCO, BMAN, BUAD, ECON or FINA program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206116>)

**ECON 6118 Python Programming (1 credits)**

Teaches the basics of programming with Python: writing and executing Python programs, learning the core data structures in Python, interacting with data, acquiring skill in data manipulation and using Python to access web data and data from databases.

*Prerequisite:* Admitted to the graduate ACCO, BMAN, BUAD, ECON or FINA program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206118>)

**ECON 6200 Economics for Management Decision Making (3 credits)**

Incorporates the tools and logic of microeconomics together with quantitative and statistical methods to assist managers in sound, ethical decision making. The principal focus is on understanding and predicting economic behavior of consumers, pricing strategies of firms, and the impact of industry competition through product-line and industry modeling and model estimation. May also consider the impact of various industries. Requires the use of current statistical software and computer technology.

*Prerequisite:* Admitted to graduate ACCO program; or admitted to graduate BUAD program and MBA 6050; or cons. of M.B.A. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206200>)

**ECON 6503 Microeconomic Theory and Applications (3 credits)**

Develops the modern neoclassical theory of consumer and firm behavior using mathematical techniques, including differential calculus. Emphasizes the methodology of constructing and using microeconomic models to explain economic behavior at the individual, firm and partial equilibrium levels. Students learn how to apply microeconomic theory to analyze critical economic issues and inform empirical work.

*Prerequisite:* Admitted to the graduate ECON or FINA program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206503>)

**ECON 6504 Macroeconomic Theory and Applications (3 credits)**

Covers both short-run economic fluctuations and long-run economic growth. Begins by analyzing business cycles utilizing current state-of-the-art models, then covers the economy's long-run growth path using neoclassical and endogenous growth models. Static and dynamic models of the economy are developed and used for policy analysis.

*Prerequisite:* Admitted to the graduate ECON or FINA program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206504>)

**ECON 6506 Industrial Organization and Public Policy (3 credits)**

Empirical studies in patterns of market structure, business behavior and performance. Industrial concentration, entry barriers, pricing and promotional behavior, efficiency and profitability. Applications in the field of antitrust and regulation.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206506>)

**ECON 6510 Economics of the Public Sector (3 credits)**

Role of government in a market-oriented economy. Externalities, public goods and political decision-making. Effects of government tax and expenditure policy on efficiency of resource allocation and on the distribution of income. Empirical methods to estimate causal effects of government policies.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206510>)

**ECON 6512 Studies in Urban and Regional Economics (3 credits)**

Uses economic tools to examine decisions of firms and households in a spatial setting. Covers regional economic issues, such as why cities exist and where they tend to develop, inter-urban household migration and firm location decisions, and models of urban growth. The urban economic topics explored include the inter-urban location decisions of economic agents in the context of amenities, public goods and zoning restrictions. Finally, the tools developed in the class are used to investigate urban problems such as poverty, housing, and transportation issues.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206512>)

**ECON 6520 Studies in Labor Economics (3 credits)**

Studies the major determinants of labor supply and demand. Special attention is paid to how government policies influence labor supply and demand decisions. Examines contemporary issues including gender economics, economics of the family, the causes of earnings inequality and poverty, the economics of discrimination, and involuntary labor turnover. Data and discussion of the evolution of institutions are presented to provide context to these current economic issues.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206520>)

**ECON 6522 Studies in Health Economics (3 credits)**

Covers the economic models and statistical methods predominantly used in the analysis of healthcare markets. Key markets in this sector include healthcare labor markets, health insurance markets and healthcare provision markets. Explores the unique properties of these markets and the role of incentives that drive key players to act. Discusses the role of government institutions and their influence over current health care issues and policy with a particular focus on the United States health care system.

*Prerequisite:* Admitted to the graduate ECON program or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206522>)

**ECON 6544 International Currency Markets (3 credits)**

An examination of various foreign currency markets, including spot, forward and derivative instruments, understanding the economic, historical, institutional, and empirical aspects of these markets. Analysis of the relationship between currency markets, money markets and bond markets. Development and study of the fundamental models of balance of payments and exchange rate determination.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206544>)

**ECON 6546 International Trade (3 credits)**

Uses microeconomic tools to analyze key issues in international trade, including trade theories, trade policies and their effects, economic integration and international factor movements. Also includes discussions of empirical studies that apply data and econometric techniques to address important trade questions.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206546>)

**ECON 6560 Applied Econometrics (3 credits)**

The first of a two-course sequence in graduate-level applied micro-econometrics. Standard model building and hypothesis testing. Focuses on cross-sectional, pooled cross-sectional and panel data techniques for causal identification. Additional topics include non-random sampling, quantile regression and decomposition techniques.

*Prerequisite:* Admitted to the graduate ECON program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206560>)

**ECON 6561 Applied Time-Series Econometrics and Forecasting (3 credits)**

Continuation of ECON 6560, focusing on more advanced time-series econometric issues and forecasting techniques using models such as VAR, VEC, ARCH/GARCH, ARIMA, and related smoothing filter methods, as well as approaches for combining and evaluating forecasts. Emphasis on the practical knowledge of above techniques, and on reporting and presenting econometric results.

*Prerequisite:* Admitted to the graduate ECON or FINA program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206561>)

**ECON 6580 Monetary Theory and Policy (3 credits)**

Factors affecting money supply, money demand and money's influences on the macroeconomy. Emphasizes Federal Reserve policy and its implication for money supply. International monetary economics and coordination of monetary policy among different countries. Examination of contemporary theoretical and econometric monetary issues and policy prescriptions.

*Prerequisite:* Admitted to the graduate ECON or FINA program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206580>)

**ECON 6931 Topics in Economics (1-3 credits)**

Topics will vary.

*Prerequisite:* Admitted to the graduate ECON or FINA program; or cons. of M.S.A.E. prog. dir. Additional prerequisites may vary from course to course.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206931>)



**ECON 6986 Internship in Applied Economics (1-3 credits)**

Directed work in applied economic analysis under the supervision of a working professional in a business, financial, international or public policy area.

Requires a faculty supervisor. Course does not apply toward degree requirements.

*Prerequisite:* Admitted to the graduate ECON program; student must have completed 9 credits in program; or cons. of M.S.A.E. prog. dir.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206986>)

**ECON 6987 Internship Work Period (0 credits)**

Full-time directed work in applied economics under the supervision of a working professional in the area of applied economics. Requires faculty supervisor. Must have approved academic component and approved total work hours. Internship does not apply toward degree requirements. (Full-time equivalency for financial aid, zero credits for academics/tuition.)

*Prerequisite:* Admitted to the graduate ECON program; completed 9 credits in program; cons. of M.S.A.E. prog. dir. SNC/UNC grade assessment.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206987>)

**ECON 6988 Internship Grading Period (3 credits)**

Grading for preceding internship work assignments is accomplished by review of Employer Evaluation Forms, Work Exit Reports and other materials as required during each term in school following a work period. (3 credits for academics/tuition; not financial aid eligible.)

*Prerequisite:* ECON 6987.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206988>)

**ECON 6995 Independent Study in Economics (1-3 credits)**

Faculty-supervised, independent study/research of a specific area or topic in Economics.

*Prerequisite:* Admitted to the graduate ECON program and cons. of M.S.A.E. prog. dir. Consent required.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206995>)

**ECON 6998 Professional Project (0 credits)**

Provides direct supervision of the research that constitutes the core of the professional project. Students submit drafts of various sections of their project as each is completed. These sections are literature review, development of theoretical model, specification of empirical model of theory, creation of the necessary data set and execution of the empirical model. The final output of the course is a complete draft of the project that meets project director's approval. S/U grade assessment.

*Prerequisite:* Admitted to the graduate ECON program; approval of project outline by the prog. dir. and cons. of M.S.A.E. prog. dir. by the stated deadline. Consent required.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%206998>)

**ECON 9991 Professional Project Continuation: Less than Half-Time (0 credits)**

Fee. S/U grade assessment. Allows a student to be considered the equivalent of less than half-time status. Requires that the student is working less than 12 hours per week on their professional project. Any professional project credits required for the degree should be completed before registering for non-credit Professional Project Continuation.

*Prerequisite:* Cons. of GSM. Consent required.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%209991>)

**ECON 9992 Professional Project Continuation: Half-Time (0 credits)**

Fee. S/U grade assessment. Allows a student to be considered the equivalent of half-time status. Requires that the student is working more than 12 to less than 20 hours per week on their professional project. Any project credits required for the degree should be completed before registering for non-credit Professional Project Continuation.

*Prerequisite:* Cons. of GSM. Consent required.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%209992>)

**ECON 9993 Professional Project Continuation: Full-Time (0 credits)**

Fee. S/U grade assessment. Allows a student to be considered the equivalent of full-time status. Requires that the student is working 20 hours or more per week on their professional project. Any professional project credits required for the degree should be completed before registering for non-credit Professional Project Continuation.

*Prerequisite:* Cons. of GSM. Consent required.

*Level of Study:* Graduate

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECON%209993>)

**ECONI 3040 Global Applied Learning Project: Applied Global Business Learning (0-3 credits)**

Applied Global Business Learning is a short-term applied global business service learning experience. Under the direction of the instructor, students work with a foreign business venture to solve business problems. In the classroom setting, students learn about the history and culture of the country, as well as the experiences of individuals who have completed a global service project in the region. Students also have the opportunity to learn the realities of developing country business problems. Students help develop a business case solution for the selected project and travel to the location for implementation. Upon completion of the in-country experience, students prepare a post trip report for both the instructor and the entrepreneur and participate in a reflection retreat. Taught in an international setting by Marquette professors and where students earn Marquette credit. Study Abroad expenses apply.

*Prerequisite:* All application materials completed and cons. of instr.; Jr. stdng.; and cons. of the Office of International Education.

*Level of Study:* Undergraduate

*Marquette Core Curriculum:* Engage Social Systms & Values 2

*Interdisciplinary Studies:* Latin American Studies

Schedule of Classes (<https://bulletin.marquette.edu/class-search/?details&code=ECONI%203040>)