

# LARICCIA SCHOOL OF ACCOUNTING AND FINANCE

## OVERVIEW

Welcome to the Lariccia School of Accounting & Finance! Students interested in the quantitative aspects of business and commerce will find both our curricular and extracurricular offerings desirable for their education and career pursuits. Please explore the resources here to learn more about the breadth of offerings now housed within our School.

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## DISCIPLINES

Accounting majors are taught how to gather, analyze, record, prepare, and examine a variety of financial information with this information being of central importance to CEOs, business owners, and policy makers. Accounting graduates pursue careers in general accounting, tax, audit, consulting, government accounting, or nonprofit accounting. Professional accounting certifications include Certified Public Accounting (CPA), Certified Management Accounting (CMA), Certified Fraud Examiner (CFE), and Certified Internal Auditor (CIA).

Finance majors use financial information to analyze a company's future prospects and manage a company's working capital, to analyze markets and make investment decisions, to assist individuals in planning their financial future, or to analyze the benefits and risks of company decisions. Graduates with a major in finance pursue careers in areas such as financial analysis, treasury, financial services including banking and insurance, risk management, or financial planning. Professional certifications include Certified Financial Planner (CFP), Chartered Financial Analyst (CFA), and Certified Valuation Analyst (CVA).

Students majoring in Business Analytics and Economics will learn how to analyze data and apply descriptive, diagnostic, predictive and prescriptive models to business, organizational, and societal problems. The program emphasizes the ability to formulate insightful questions using data, provide actionable solutions to business and economic problems, and to interpret analytical models to improve business and economic decision making. Graduates of this program will be data experts that have technical, quantitative, and business skills for today's increasingly data-driven professions.

## EXTRACURRICULAR ACTIVITIES

- Student-Practitioner Days
- Volunteer Income Tax Assistance Program (VITA)
- Student Investment Fund
- Institute of Management Accountants
- Economics Club

## HONORARY FRATERNITIES

- Beta Alpha Psi (Accounting, Finance, Information Systems)
- Omicron Delta Epsilon (Economics)
- Beta Gamma Sigma (BSBA majors)

### Director

**Jeremy Schwartz**, Ph.D., Director

### Professor

**Huaiyu (Peter) Chen**, Ph.D., Associate Professor

**Erica L. Neuman**, Ph.D., Assistant Professor

**Tomi P. Ovaska**, Ph.D., Professor

**Joseph Palardy**, Ph.D., Professor

**Karin A. Petruska**, Ph.D., Professor

**Albert J. Sumell**, Ph.D., Professor

**Yogesh Uppal**, Ph.D., Professor

**Yaqin Wang**, Ph.D., Professor

**Peter Woodlock**, Ph.D., Professor

**Jessie Wright**, Ph.D., Assistant Professor

**Xiaolou Yang**, Ph.D., Professor

**Yiyang Zhang**, Ph.D., Associate Professor

**Rongyao (Gloria) Zhang**, Ph.D., Assistant Professor

### Lecturer

**M. Constance Augustine**, M.B.A., Lecturer

**Kerri Henderson**, M.B.A., Senior Lecturer

**Sarah E. Jenyk**, M.A., Senior Lecturer

**Michael Villano**, Ph.D., Senior Lecturer

## MAJORS (BSBA DEGREE-AACSB ACCREDITED)

- Accounting (<https://catalog.ysu.edu/undergraduate/colleges-programs/college-business-administration/department-accounting-finance-economics/bsba-in-accounting/>)
- Finance (<https://catalog.ysu.edu/undergraduate/colleges-programs/college-business-administration/department-accounting-finance-economics/bsba-finance/>)
- Business Analytics and Economics (<https://catalog.ysu.edu/undergraduate/colleges-programs/college-business-administration/department-accounting-finance-economics/business-economics/>)

## MINORS

- Accounting Minor (<https://catalog.ysu.edu/undergraduate/colleges-programs/college-business-administration/department-accounting-finance-economics/accounting-minor/>)
- Economics (<https://catalog.ysu.edu/undergraduate/colleges-programs/college-business-administration/department-accounting-finance-economics/economics-minor/>)
- Economics with Statistics (<https://catalog.ysu.edu/undergraduate/colleges-programs/college-business-administration/department-accounting-finance-economics/economics-statistics-minor/>)
- Finance Minor (<https://catalog.ysu.edu/undergraduate/colleges-programs/college-business-administration/department-accounting-finance-economics/finance-minor/>)

## CERTIFICATES

- Accounting and Bookkeeping (<https://catalog.ysu.edu/undergraduate/colleges-programs/college-business-administration/department-accounting-finance-economics/certificate-in-accounting-and-bookkeeping/>)

## Accounting

### ACCT 1503 Essentials of Accounting 3 s.h.

Terminology, concepts and principles of basic financial and managerial accounting from a user perspective. Internal controls, cash controls, and payroll accounting are covered. Does not fulfill WCBA requirements and cannot substitute for ACCT 2602.

### ACCT 2602 Financial Accounting 3 s.h.

Study of the accounting cycle and generally accepted accounting principles including preparation of financial statements.

**Prereq.:** MATH 1510 or MATH 1510C or MATH 2623 or MATH 2623C or MATH 1552 or MATH 1570 or MATH 1571.

### ACCT 2602H Honors Financial Accounting 3 s.h.

Study of the accounting cycle and generally accepted accounting principles including preparation of financial statements.

**Prereq.:** MATH 1510 OR MATH 1510C OR MATH 2623 OR MATH 2623C OR MATH 1552 OR MATH 1570 OR MATH 1571.

### ACCT 2603 Managerial Accounting 3 s.h.

Study of the accounting informational needs of management. Emphasis on techniques of planning and control.

**Prereq.:** "C" or better in ACCT 2602 OR ACCT 2602H.

### ACCT 3701 Intermediate Accounting 1 3 s.h.

In depth study of the accounting cycle, the preparation of financial statements including the cash flow statement, and current assets. Emphasis on relating practice to the FASB conceptual framework.

**Prereq.:** "C" or better in ACCT 2602 or ACCT 2602H and 2.5 overall GPA.

### ACCT 3702 Intermediate Accounting 2 3 s.h.

This course involves the disclosure of financial information with an emphasis on asset acquisition and valuation, accounting changes and estimates, and related expenses. Additional topics include stockholders' equity, leases, EPS, post-retirement benefits, revenue recognition, cash flows and other current accounting topics.

**Prereq.:** ACCT 3701 (C or better) AND 2.5 GPA.

### ACCT 3709 Accounting Information Systems 3 s.h.

Study of systems analysis, design, and implementation within the context of an accounting information system. Topics include a treatment of the business computing environment, security and control of information, the accounting information system as a component of the management information system, and decision support and expert systems.

**Prereq.:** "C" or better in ACCT 2602 or ACCT 2602H and 2.5 overall GPA.

### ACCT 3710 Analysis and Design of Accounting Databases 3 s.h.

An introduction to the analysis of accounting databases. Specific emphasis is placed on the structure and use of accounting databases, particularly XBRL.

**Prereq.:** ACCT 3709 (C or better), 2.5 GPA.

### ACCT 3711 Cost Accounting 3 s.h.

Study of cost accumulation for products manufactured under job order or continuous manufacturing processes; cost behavior and profit-volume relationships; cost structures for control and motivation; relevant costs for non-routine decision making.

**Prereq.:** ACCT 2603 (C or better), 2.5 GPA.

### ACCT 3714 Business Regulation 3 s.h.

In-depth analysis of commercial law areas covered on the CPA exam, with emphasis on sales, secured transactions, real and personal property, insurance, bankruptcy, and commercial paper.

**Prereq.:** C or better in ACCT 2602 and 2.5 GPA.

### ACCT 3721 State and Local Taxes 3 s.h.

Theory applicable to state and local taxation. Primary emphasis on taxation principles in current use by state and local government units located throughout the United States. Case law is studied, some representative tax returns prepared.

**Prereq.:** ACCT 2603 (C or better), 2.5 GPA.

### ACCT 3734 Data Analytics for Accounting 3 s.h.

Course emphasis is on knowledge and skills to collect, manage, and analyze extremely large volumes of data in various formats from numerous sources in accounting domain. Focus will be given to the following: dataset structure, data queries, database and enterprise system architecture, database security, database knowledge through data mining, data quality, data visualization, advanced data modeling, accounting data sampling and distribution, and fraud examination through data analytics. The course includes a number of hands-on exercises, Tableau/Alteryx.

**Prereq.:** BUS 3700 (C or better), 2.5 GPA.

### ACCT 3750 Forensic Accounting and Fraud Examination 3 s.h.

This course involves the study of forensic accounting with an emphasis on fraud prevention, deterrence and detection techniques. Topics include identifying occupational fraud, abuse, and the misappropriation of assets and revenue. Also introduced is the role of the COSO internal control framework, risk assessments, corporate governance and the internal audit profession.

**Prereq.:** ACCT 2602 (C or better) or ACCT 2602H (C or better); 2.5 GPA.

### ACCT 4801 Advanced Accounting 3 s.h.

Financial accounting and reporting related to complex and highly sophisticated business transactions. Topics include the equity method, business combinations, variable interest entities, segment and interim reporting, worldwide diversity of accounting standards, foreign currency transactions and translation, SEC reporting, legal reorganizations and liquidations, partnership accounting, and estates and trusts.

**Prereq.:** ACCT 3702 (C or better), FIN 3720 (C or better), 2.5 GPA.

### ACCT 4808 Auditing 3 s.h.

A study of the theory and practice of auditing. Topics include auditor responsibilities, internal control over financial reporting, professional standards, and the audit opinion formulation process. Students analyze actual business fraud cases.

**Prereq.:** ACCT 3709 (C or better), 2.5 GPA.

### ACCT 4809 Security and Privacy in Electronic Commerce 3 s.h.

This course focuses on the technology and communication infrastructure supporting electronic commerce and its impact on auditing. Encryption, public key infrastructure, digital signatures, payment schemes, and web commerce are discussed.

**Prereq.:** ACCT 4808 (C or better), 2.5 GPA.

### ACCT 4813 Federal Taxation 1 3 s.h.

This course teaches students fundamental and current tax law associated with personal, investment, property and sole-proprietorship transactions with particular emphasis on individual tax return preparation and planning. Concepts are supported through the preparation of actual tax returns and discussion of how transactions can be restructured to minimize current or future tax liability.

**Prereq.:** ACCT 2603 (C or better) AND 2.5 GPA.

### ACCT 4815 Estate Planning 3 s.h.

A study of estate and gift tax law including tax return preparation. Emphasis on the importance of estate planning and the devices available for use in such planning, and effective uses of lifetime gifts, trusts, life insurance, pension plans, profit sharing, and other fringe benefit plans. The effects of state inheritance tax and property laws upon estate planning will be included.

**Prereq.:** ACCT 4813 (C or better), 2.5 GPA.

### ACCT 4817 Income Tax Preparation 1 3 s.h.

Preparation of actual federal, state and local income tax returns of people from the community. Completion of an IRS training program in federal income taxation of individuals, including international students and scholars and military personnel. Training using professional income tax preparation software is also provided.

**Prereq.:** 2.5 GPA and special approval.

**ACCT 4817C CE Income Tax Preparation 1 3 s.h.**

Preparation of actual federal, state and local income tax returns of people from the community. Completion of an IRS training program in federal income taxation of individuals, including international students and scholars and military personnel. Training using professional income tax preparation software is also provided.

**Prereq.:** 2.5 GPA and special approval.

**ACCT 4818 Income Tax Preparation 2 3 s.h.**

A continuation of ACCT 4817 with updated training in federal tax law and tax preparation software. Because of previous experience in ACCT 4817, students prepare more-complex tax returns (including small business and rental returns), provide guidance and leadership to first-year students, and assist with summary and e-filing of tax returns. A more in-depth summary/reflection paper is required. May be repeated once.

**Prereq.:** ACCT 4817 (B or better), 2.5 GPA.

**ACCT 4818C CE: Income Tax Preparation 2 3 s.h.**

A continuation of ACCT 4817 with updated training in federal tax law and tax preparation software. Because of previous experience in ACCT 4817, students prepare more-complex tax returns (including small business and rental returns), provide guidance and leadership to first-year students, and assist with summary and e-filing of tax returns. A more in-depth summary/reflection paper is required. May be repeated once.

**Prereq.:** ACCT 4817 (B or better), 2.5 GPA.

**ACCT 4820 Government and Funds Account 3 s.h.**

Generally accepted accounting principles for not-for-profit and governmental organizations as established by the appropriately recognized, standard-setting bodies. Includes state and local governments, school districts, colleges and universities, hospitals, voluntary health and welfare organizations, and others.

**Prereq.:** "C" or better in ACCT 2603 and 2.5 overall GPA.

**ACCT 4840 Accounting Internship 3 s.h.**

The student is given the opportunity to relate theory to practice in a career related on-site field experience with a participating organization.

**Prereq.:** junior standing, 2.5 overall GPA, and special approval or special approval.

**ACCT 4841 Accounting Internship 2 3 s.h.**

Students have the opportunity to relate theory to practice in a career related on-site field experience with a participating organization. Accounting Internship 2 may be done at a different or the same organization as ACCT 4840; if the same organization, higher levels of duties and performance are expected.

**Prereq.:** ACCT 4840 (B or better), 2.5 GPA AND special approval required, OR special approval required.

**ACCT 4851 Professional Practice in Accounting 1 s.h.**

Provides students with cooperative education experiences in accounting. Students may be assigned to public, corporate, or government entities on a semester to semester basis. May be repeated.

**Prereq.:** Accounting major, Junior standing, AND 2.5 GPA.

**ACCT 4855 Careers and Professionalism in Acct 1 s.h.**

Professionals from public, private, nonprofit and governmental accounting areas are invited to speak during class. The focus is how to plan for, and what to expect when starting an accounting career, and how to conduct oneself as a professional. Ethical considerations are emphasized. The class offers a unique opportunity to interact and network with accounting professionals.

**Prereq.:** Junior standing or permission of instructor, and 2.5 overall GPA.

**ACCT 4860 Special Topics in Accounting 1-4 s.h.**

Subject matter, credit hours, and prerequisites will be announced in advance of each topic. 2.5 overall GPA.

**Prereq.:** Permission of department chairperson.

**ACCT 4870 CPA Review Financial Accounting and Reporting 2 s.h.**

A CPA review course focused on preparing students to take the financial accounting and regulation sections of the CPA exam. Only ONE 2 semester hour CPA Review course may be used as an Upper Division Business elective towards the BSBA degree; cannot be used as an Accounting elective.

**Prereq.:** "C" or better in ACCT 4801 and 2.5 overall GPA.

**ACCT 4871 CPA Review Regulation 2 s.h.**

A CPA review course focused on preparing students to take the regulation section of the CPA exam, including familiarizing students with the computer based questions and simulations found on the exam. Only ONE 2 semester hour CPA Review course may be used as an Upper Division Business elective toward the BSBA degree; cannot be used as an Accounting elective.

**Prereq.:** "C" or better in ACCT 4813, 2.5 overall GPA.

**ACCT 4872 CPA Review AUDIT 2 s.h.**

A CPA review course focused on preparing students to take the Auditing and Attestation section of the CPA exam. Only ONE 2 semester hour CPA Review course may be used as an Upper Division Business elective towards the BSBA degree; cannot be used as an Accounting elective.

**Prereq.:** "C" or better in ACCT 4808, 2.5 overall GPA.

**ACCT 5814 Federal Taxation 2 3 s.h.**

This course studies the fundamental tax laws as they apply to corporations, partnerships and limited liability companies. Federal payroll taxes, tax research techniques and the calculation of tax provisions for corporations is included. Concepts are supported through various projects and preparation of actual tax returns.

**Prereq.:** ACCT 4813 (C or better), 2.5 GPA.

## Finance

**FIN 3715 Planning Your Financial Future 3 s.h.**

An introductory course to personal finance planning. Emphasis on establishing financial goals and monitoring progress toward reaching those goals to improve the individual's quality of life. Topics include financial planning process, budgeting, credit, financing strategies, education planning, tax planning, etc.. Open to business and non-business majors.

**FIN 3720 Business Finance 3 s.h.**

This course focuses on the financial problems associated with the life cycle of a business. Topics include business organizations, financial statement analysis, the time value of money, asset valuation, risk and returns, the cost of capital, capital budgeting, project analysis, dividend policies and investment decisions. The purpose of this course is to provide the basic financial knowledge necessary to enable students to become valuable employees in corporate, governmental, entrepreneurial or non-profit settings.

**Prereq.:** ACCT 2603 (C or better), 2.5 GPA.

**FIN 3726 Insurance Planning 3 s.h.**

Risk Management. Introduces students to risk management and insurance decisions in personal and business financial planning. Topics include insurance for life, health, disability, property and liability risks as well as annuities, group insurance, long-term care insurance and social security.

**Prereq.:** "C" or better in FIN 3720 and 2.5 overall GPA.

**FIN 3730 Investment Planning 3 s.h.**

Introduces topics of investment planning, vehicles, analysis and strategies required in the financial planning process. Discussions are within the context of risk and return, asset valuation, various financial instruments, financial mathematics, asset pricing models and portfolio management. The aim of the course is for students to gain the knowledge to evaluate alternative investment choices in the context of client's financial planning needs.

**Prereq.:** "C" or better in FIN 3720 and 2.5 overall GPA.

**FIN 4833 Retirement Plans & Employee Benefits 3 s.h.**

Retirement Plans Emp Benefits. Provides students with retirement and employee benefits topics required for a financial planning career discussed within the context of time value of money, inflation, and taxation. Specifically, insurance (life, disability and medical) issues, ESOPs and deferred compensation plans, private and public retirement plans and distribution rules are reviewed in-depth.

**Prereq.:** "C" or better in FIN 3720 and 2.5 overall GPA.

**FIN 4835 Advanced Business Finance 3 s.h.**

This course explores a solid foundational knowledge, tools and strategies used in modern corporate financial management. In today's competitive business environment, companies must find innovative ways to achieve rapid and sustainable growth. Through the use of real-world examples, this course will equip students with critical knowledge and skills in areas of corporate investment and financing decisions, funds allocation, capital structure and corporate strategies to make smart business decisions and formulate strategies to maximize company value.

**Prereq.:** FIN 3720 (C or better), 2.5 GPA.

**FIN 4836 Financial Markets 3 s.h.**

An examination of global financial markets, institutions, and instruments with emphasis on factors influencing how firms and individuals make financing and investing decisions. Advanced coverage of fixed-income instruments.

**Prereq.:** FIN 3720 (C or better), 2.5 GPA.

**FIN 4838 Financial Plan Development 4 s.h.**

Prepares students with financial planning knowledge, skills and ability to integrate, apply and communicate to their clients. Planning recommendations are demonstrated through real-life case studies. The focus of this capstone course is on the fundamental planning practices, professional skills and integration of concepts and knowledge.

**Prereq.:** "C" or better in FIN 3726, FIN 4833, and ACCT 4815; 2.5 overall GPA.

**FIN 4839 International Accounting and Finance 3 s.h.**

Cross-functional introduction to multinational enterprises and multinational financial management with emphasis on foreign currency risk management; measuring and managing accounting and economic exposure; foreign trade and investment analysis; various topics in international accounting and finance.

**Prereq.:** "C" or better in FIN 3720 and 2.5 overall GPA.

**FIN 4841 Seminar in Investments and Security Markets 3 s.h.**

An examination of the literature on efficient capital markets with implications for security selection and portfolio management.

**Prereq.:** "C" or better in FIN 3720 and 2.5 overall GPA.

**FIN 4845 Business Valuation 3 s.h.**

Study of business valuation techniques currently used in valuing publicly traded and private equity to include: cash flows, forecasting, estimating cost of capital for public and private companies, valuation of stand-alone companies and business units from perspective of acquirer and seller.

**Prereq.:** "C" or better in FIN 3720 and 2.5 overall GPA.

**FIN 4850 Finance Internship 3 s.h.**

The student is given the opportunity to relate theory to practice in a career related on-site field experience with a participating organization.

**Prereq.:** junior standing, 2.5 overall GPA, and Special Approval of Director or Special Approval of Director.

**FIN 4851 Finance Internship 2 3 s.h.**

Students have the opportunity to relate theory to practice in a career related on-site field experience with a participating organization. Finance Internship 2 may be done at a different or the same organization as FIN 4850; if the same organization, higher levels of duties and performance are expected.

**Prereq.:** FIN 4850 (B or better), 2.5 overall GPA, and special approval.

**FIN 4853 Financial Analysis 3 s.h.**

This course is designed to address the increasing demand for students to think about financial statement analysis from a practical and global financial perspective. Topics include financial reporting standards and quality, interpretation and analysis of financial statements and information, various financial analysis techniques and practical applications.

**Prereq.:** "C" or better in FIN 3720 and 2.5 overall GPA.

**FIN 4860 Special Topics in Finance 1-4 s.h.**

Subject matter, credit hours, and prerequisites will be announced in advance of each topic. 2.5 overall GPA.

**Prereq.:** Permission of director.

## Economics

**ECON 1501 Economics in Action 3 s.h.**

An introduction to the United States' economic system and institutions through the examination of current economic problems. Not applicable for a major or minor in economics. Credit will not be given for 1501 if a student has already received credit for ECON 2610 or its equivalent.

**Gen Ed:** Social Science 2024.

**ECON 1503 Rich and Poor: Diversity and Disparity in the United States Workplace 3 s.h.**

Examines how labor markets determine the distribution of income and the dramatic changes in the composition of the American labor force. Explores such issues as the widening gap between low and upper income groups, the characteristics of the poor, affirmative action, the glass ceiling, the mommy track, and family-friendly working environments. Not applicable towards a major or minor in economics.

**Gen Ed:** Social and Behavioral Science, Domestic Diversity 2024, Social Science 2024, Social and Pers Awareness 2024.

**ECON 1503C CE Rich and Poor 3 s.h.**

Examines how labor markets determine the distribution of income and the dramatic changes in the composition of the American labor force. Explores such issues as the widening gap between low and upper income groups, the characteristics of the poor, affirmative action, the glass ceiling, the mommy track, and family-friendly working environments. Not applicable towards a major or minor in economics.

**Gen Ed:** Social and Behavioral Science, Domestic Diversity 2024, Social Science 2024, Social and Pers Awareness 2024.

**ECON 1503H Honors Rich and Poor: Diversity and Disparity in the U.S. Workplace 3 s.h.**

S. Workplace. Examines how labor markets determine the distribution of income and the dramatic changes in the composition of the American labor force. Explores such issues as the widening gap between low and upper income groups, the characteristics of the poor, affirmative action, the glass ceiling, the mommy track, and family-friendly working environments. Not applicable towards a major or minor in economics.

**Gen Ed:** Social and Behavioral Science, Domestic Diversity 2024, Social Science 2024, Social and Pers Awareness 2024.

**ECON 1505 Personal Financial Literacy 3 s.h.**

An introduction to personal financial planning. Topics covered include budgeting, the use of credit, taxes, savings accounts, investment strategies, insurance, buying a home, career planning, and retirement planning. Students will gain the knowledge and resources to be better prepared for their financial future.

**Gen Ed:** Social and Behavioral Science, Social Science 2024, Social and Pers Awareness 2024.

**ECON 1507 Artificial Intelligence in Society 3 s.h.**

This course examines how artificial intelligence (AI) is transforming society, the economy, and the job market, looking at emerging and evolving developments. Students will learn to use AI tools and think critically about how they affect society. The course helps students understand AI's impact on society, and it will also teach students how to predict future trends and suggest solutions to the problems AI may cause. The course covers topics such as the challenges of AI and its long-term consequences on skill development, LLMs, automation, and the impact of AI across industries, ethical considerations in AI, policy responses like Universal Basic Income, and predicting AI's impact on jobs.

**Gen Ed:** Social and Behavioral Science.

**ECON 2610 Principles 1: Microeconomics 3 s.h.**

Introduction to the theory of markets, including the behavior of consumers and the conduct of private and public business enterprise. Effects of monopoly and competition on private and social welfare. The role of government in promoting the economic welfare of consumers, workers, and minorities.

**Gen Ed:** Social and Behavioral Science, Social Science 2024.

**ECON 2610H Honors Principles 1: Microeconomics 3 s.h.**

Introduction to the theory of markets, including the behavior of consumers and the conduct of private and public business enterprise. Effects of monopoly and competition on private and social welfare. The role of government in promoting the economic welfare of consumers, workers, and minorities.

**Gen Ed:** Social and Behavioral Science, Social Science 2024.

**ECON 2630 Principles 2: Macroeconomics 3 s.h.**

Studies of growth, inflation, and unemployment at the national level and the performance of the U.S. economy in the global setting. The impacts of national economic policies on individual and social welfare. An extensive discussion and evaluation of the U.S. banking system and its effects on individuals and businesses.

**Gen Ed:** Social and Behavioral Science, Social Science 2024.

**ECON 2630H Honors Principles 2: Macroeconomics 3 s.h.**

Studies of growth, inflation, and unemployment at the national level and the performance of the U.S. economy in the global setting. The impacts of national economic policies on individual and social welfare. An extensive discussion and evaluation of the U.S. banking system and its effects on individuals and businesses.

**Gen Ed:** Social and Behavioral Science, Social Science 2024.

**ECON 2631 Introductory Macroeconomics for Education Majors 3 s.h.**

Measurement of the national economy's performance (growth, inflation, and unemployment), the banking system, the impact of government on macroeconomic performance, and international macroeconomics. Principles of personal finance, including budgeting, the use of credit, and financial planning are also discussed. Open only to education majors. Credit will not be given for both ECON 2630 and ECON 2631.

**Prereq.:** ECON 2610.

**ECON 3701 Money and Banking 3 s.h.**

Organization and operation of commercial banking in the United States; central banking under the Federal Reserve System; basic theory. Monetary policy as a determinant of national income.

**Prereq.:** ECON 2630.

**ECON 3702 Public Finance & Political Economy 3 s.h.**

This course in public finance and political economy offers an overview of how governments allocate and manage resources to promote economic growth and social welfare. Students will learn about the various tools used by governments to raise revenue and allocate resources, such as taxes, subsidies, public spending, and debt financing. The course also explores the various market failures that can arise due to externalities, information asymmetries, and public goods, and how governments can intervene to correct them. Additionally, the course delves into the political economy of public finance, analyzing the trade-offs between political and economic objectives, such as efficiency, equity, and political stability.

**Prereq.:** ECON 2610.

**ECON 3703 Behavioral Economics 3 s.h.**

Uses insights from economics and psychology to explain why normally rational people make poor choices in their lives, be it in terms of money, health, education or long-term happiness. This introductory course explores the sources of poor economic choices and examines ways to improve them.

**Prereq.:** None.

**ECON 3705 Climate Change and Environmental Economics 3 s.h.**

Application of economic theory to environmental problems, analysis of policy alternatives for pollution abatement, and the conservation of exhaustible resources, with an emphasis on the economic consequences of and potential policies used to address climate change. Determination of efficient management of local and national pollution levels, including air, water, and toxic substances.

**Prereq.:** ECON 1501 or ECON 2610.

**ECON 3710 Intermediate Microeconomic Theory 3 s.h.**

This course provides comprehensive coverage of microeconomic issues by analyzing applications of the theory. The primary objectives are to think analytically about the forces at work in the choices of individuals and firms and to study the allocation of our limited resources in the economy to determine whether it is optimal for society.

**Prereq.:** ECON 2610.

**ECON 3712 Intermediate Macroeconomic Theory 3 s.h.**

The construction of national income and production accounts and the basic determinant of income, output, and employment. Determination of the level of employment, interest, and money through the classical versus Keynesian aggregate economics.

**Prereq.:** ECON 2630 (C or better).

**ECON 3720 Capitalism versus Socialism 3 s.h.**

An examination of the recent world-wide trend toward free market economy, giving particular attention to basic processes such as resource allocation and product distribution. Frequent references are made to the failure of Socialism in the USSR and the new approach in Russia, Eastern Europe and China toward market economies.

**Prereq.:** None.

**ECON 3730 Advanced Excel and Business Analytics Tools 3 s.h.**

This course introduces students to essential tools and techniques used in business analytics. It covers advanced spreadsheet functionalities, data workflow design, Microsoft Power Query, and foundational concepts in databases, tailored for a general audience.

**Prereq.:** BUS 3700 AND 2.5 GPA.

**Cross-Listed:** BUS 3730.

**ECON 3733 Predictive Analytics 3 s.h.**

This course builds on foundational business analytical skills, delving into advanced Tableau analytics and predictive modelling algorithms in SPSS with a focus on real-world applications. Students will learn various tools to collect and clean the data, create sophisticated visualizations, perform complex data analysis, and effectively communicate insights to diverse audiences. The main focus is for the students to familiarize themselves with several tasks a business analyst could be asked to perform in various real world business scenarios.

**Prereq.:** C or better BUS 3700.

**Cross-Listed:** BUS 3733.

**ECON 3735 Artificial Intelligence in Business 3 s.h.**

In this course students will embark on an immersive, project-based exploration of the transformative impact of generative AI across various business sectors and the economy. From automating customer service to innovating marketing strategies, simulating design processes, and analyzing case studies, students will work hands-on with cutting-edge AI tools to solve real-world challenges. Through a series of tailored projects, the course aims to equip students with the foundational AI skills and ethical considerations essential for leveraging artificial intelligence as a strategic asset in today's fast-paced digital economy.

3.s.h.

**Prereq.:** Junior Standing AND 2.5 GPA.

**Cross-Listed:** BUS 3735.

**ECON 3740 Sports Economics 3 s.h.**

Economic analysis of individual, team, and league sports. This course focuses not only on the market structure and industrial organization of sports leagues, but also addresses the public finance issues of municipal stadium construction and the labor issues involved with free agency and salary caps.

**Prereq.:** ECON 2610.

**ECON 3788 Advanced Business Analytics 3 s.h.**

This course explores advanced concepts in business analytics with a focus on business application of machine learning techniques. Students will learn to develop and apply predictive models for real-world business and economic challenges, leveraging data analytics tools and machine learning algorithms.

**Prereq.:** BUS 3700.

**ECON 3789 Statistics for Business and Economics 2 3 s.h.**

This course builds on concepts introduced in ECON 3788. Specific topics include hypothesis testing, regression analysis, ANOVA and time series analysis. Practical application of statistical procedures is incorporated into regularly scheduled computer workshops. Credit will not be given for ECON 3789 if a student has already received credit for ECON 3790 or its equivalent. 3 s.h.

**Prereq.:** ECON 3788.

**ECON 4810 Managerial Economics 3 s.h.**

An application of economic analysis to business problems. Emphasis upon executive decisions for the allocation of resources.

**Prereq.:** ECON 2610.

**ECON 4855 Health Economics 3 s.h.**

Application of basic principles to the study of the health care industry. Topics include the supply and demand of medical care, the effects of private and public insurance on the health care industry, trends in health care costs, public policies to equalize access to medical care and the dilemma caused by the improvement in life-sustaining technology.

**Prereq.:** ECON 2610.

**ECON 4860 Selected Topics in Economics 3 s.h.**

Advanced study of selected topics in economic analysis and issues in economic policy. May be repeated once with different topic.

**Prereq.:** ECON 2610 and ECON 2630.

**ECON 4870 Economics Internship 3 s.h.**

The practical application of economic knowledge and statistical skills in the workplace. Students assist professionals in various kinds of industrial, financial, and public service organizations.

**Prereq.:** Junior standing, 2.5 overall GPA, AND Special Approval of Director OR Special Approval of Director.

**ECON 4871 Economics Internship 2 3 s.h.**

The practical application of economic knowledge and statistical skills in the workplace. Students assist professionals in various kinds of industrial, financial, and public service organizations.

**Prereq.:** ECON 4870 (B or better), Junior standing, 2.5 GPA, AND Special Approval of Director OR Special Approval of Director.

**ECON 4880 Business Analytics of Economic Issues 3 s.h.**

This capstone course offers students a comprehensive project in economics and business analytics. It integrates the application of data techniques, visualization, predictive analytics with an emphasis on model interpretability, and prescriptive analytics to address real-world economic or business issues.

**Prereq.:** ECON 3710, ECON 3712, ECON 3788 and BUS 3700.

**Gen Ed:** Capstone 2024.

**ECON 4898 Graduate Study in Selected Economic Topics 3 s.h.**

For undergraduates taking courses in the MA in Economics program for credit towards an undergraduate degree. Credit earned cannot be later applied to a graduate degree. The student must meet the criteria for undergraduate students taking graduate coursework listed in the Graduate Bulletin. May be repeated with different graduate courses.

**Prereq.:** A minimum of 20 hours of coursework in economics at the 2600 level and above, permission of the chair, junior standing.

**ECON 4899 Individual Study in Economics 1-4 s.h.**

Individual study of a topic, area, or problem requiring in-depth reading, and a written project.

**Prereq.:** Junior or senior standing AND Special Approval.

**ECON 5806 History of Economic Thought 3 s.h.**

Designed to provide students with an understanding of the development of economic ideas to include: Mercantilism, Physiocrats, the English Classical School, Utilitarianism, early Social Thought, Karl Marx, the German Historical School, Institutionalists and the Keynesian School.

**Prereq.:** ECON 2630.

**ECON 5811 International Trade 3 s.h.**

Theories of international trade and specialization; free trade vs. protectionism; tariff and non-tariff barriers to international trade; international balance of payments and its components; the role of multinational enterprises in contemporary trade pattern; regional economic integrations and world trade; U.S. commercial policies.

**Prereq.:** ECON 2610.

**ECON 5812 International Finance 3 s.h.**

Theories of foreign exchange and capital movements, international payments, analysis of spot and forward foreign exchange markets, foreign exchange market arbitrage, speculation, and risk hedging. The Bretton Woods agreement and the contemporary international monetary system. The rise of international organizations and multinational enterprises in the international economy.

**Prereq.:** ECON 2630.

**ECON 5822 Crime and Urban Economics 3 s.h.**

This course will draw upon economic models and theories and use the tools of economics to analyze problems of urban areas with an emphasis on the economics of crime, drugs, and incarceration. Topics include the causes of the growth or decline in cities, the theory of location, agglomeration, housing, segregation, suburbanization, and auto congestion.

**Prereq.:** ECON 2610.

**ECON 5824 Applied Time Series Analysis of Economic and Business Data 3 s.h.**

An in-depth analysis of time series models and their applications to problems in economics and business. Emphasis on forecasting. Extensive use of standard computer programs.

**Prereq.:** ECON 2610 and STAT 4817 or ECON 3790 or (ECON 3788 and ECON 3789) or (ECON 3788 and BUS 3700).

**ECON 5850 Introduction to Game Theory 3 s.h.**

Topics include (not limited to) Nash equilibrium, pure/mixed strategy, static/dynamic games, repeated games and coordination, perfect/incomplete information, etc.

**Prereq.:** ECON 2610.

**ECON 5861 SAS Programming for Data Analysis 3 s.h.**

An introduction to SAS programming for data analytics. Topics include using SAS for data processing, manipulation, visualization, reporting, and statistical analysis. The objective is for students to develop statistical computing skills for problem solving and decision making.

**Prereq.:** STAT 2601 or STAT 3717 or STAT 3743 or ECON 3790, or ECON 3788 and ECON 3789, or ECON 3788 and BUS 3700.

**Cross-Listed:** STAT 5811.

**ECON 6912 Applied Microeconomics 3 s.h.**

This course provides comprehensive coverage of microeconomic issues by analyzing applications of the theory. This includes study of demand and supply, theory of behavior of consumers and firms, choice under uncertainty, partial equilibrium analysis of various market structures, and Pareto efficiency. The course will focus on applications of the theory through current applied economic research peer reviewed articles.

**ECON 6915 Healthcare Analytics 3 s.h.**

In this course we will learn skills necessary to analyze and interpret healthcare data to improve evidence-based decision-making, patient outcomes, and overall healthcare system performance. Topics include data management, exploratory data analysis (EDA), predictive modelling and model evaluation as it relates to various health care data. We also learn about the main issues that plague the healthcare markets in the US.

**ECON 6922 Macroeconomic Theory 3 s.h.**

Examines models used to determine the value of various aggregate economic variables, such as the price level, national income, employment, interest rates, and wage rates.

**ECON 6939 Financial Markets and Institutions 3 s.h.**

Study of the institutions, instruments, and markets that facilitate the distribution of financial resources throughout the economy. The course discusses the money, capital, and commodity markets. Also, the topics of accessing default risk and hedging against market risk are discussed.

**ECON 6945 Public Finance 3 s.h.**

Study of the role of the government in the economy. The topics covered will include expenditure analysis, theories of taxation, provision of public goods, fiscal federalism, and public choice theory.

**Prereq.:** ECON 6912.

**ECON 6970 Economics Internship 3 s.h.**

The practical application of economic knowledge and statistical skills in the workplace. Students assist participating professionals in various kinds of industrial, financial, and public service organizations.

**Prereq.:** ECON 6912 and ECON 6922, Special Approval of Director.

**ECON 6976 Predictive Analytics 3 s.h.**

Study of the fundamentals of econometric techniques that are useful for estimating causal economic relationships. The objectives include (1) analysis of the effects of exogenous factors on the variable whose behavior we seek to explain, (2) testing of hypotheses about new and existing economic theories, and (3) forecasting estimated economic relationships beyond the sample period for the purpose of planning and control. The course will focus on the practice of econometrics with extensive applications to a variety of real-world problems in many areas of economics.

**ECON 6980 Applied Time Series Analysis and Forecasting 3 s.h.**

Covers essential tools for time series analysis and forecasting with emphasis on how to apply those tools to analyze and forecast economic and business data. Topics include ARMA models, Time Series Decomposition, Exponential Smoothing, GARCH, VAR models, and Cointegration.

**Prereq.:** ECON 2610 and ECON 3789 or ECON 3790 or ECON 6976 or STAT 5817.

**ECON 6990 Special Topics in Economics 1-3 s.h.**

Special interest topics selected by the staff in the following areas: economic education, economic theory, and applied economics analysis. May be repeated for a maximum of six hours toward a graduate degree.

**ECON 6992 Data Analytics - Advanced SAS Programming 3 s.h.**

This course is designed to provide students training of advanced SAS programming for data analysis. Main topics include SQL, Macro language, Econometrics-related procedures, working with large data set, etc.

**Prereq.:** ECON 6976 or equivalent and either ECON 5861 or STAT 5811.

**Cross-Listed:** STAT 6912.

**ECON 6998 Business Analytics Project 3 s.h.**

Students are required to undertake an original quantitative research project in a field of economics and write a paper summarizing their results.

**Prereq.:** BUS 6930.

**Prereq. or Coreq.:** ECON 6976.

**ECON 6999 Master's Thesis 3 s.h.**

A research project under the supervision of a member of the department on the graduate faculty. The project typically extends the student's research in ECON 6998.

**Prereq.:** a grade of "A" or "B" in ECON 6998 and a thesis proposal accepted by departmental committee.