BUSINESS PHD (BPHD)

BPHD 6970. Applied Microeconometrics. (3 Credits)
The primary goal of the course is to improve students’ ability to conduct high-level empirical research, combining economics, econometrics, and data. The course will specifically cover instrumental variables estimation, regression discontinuity, propensity score matching, control function approach, randomized control trials, static panel data models, and dynamic panel data models. The course is intended to be particularly useful for advanced Ph.D. students and master’s students planning to write or currently writing a thesis. The course will mainly draw on a series of high-quality journal publications from the field of applied microeconomics that use the aforementioned applied econometric techniques for causal inference.

Prerequisite: ECON 6910.

BPHD 7010. Fundamentals of Acct 1. (3 Credits)
Provides insights into how accounting information can be used by investors and creditors to measure the results of business operations.

BPHD 7011. Economic Analysis and Business Decisions. (3 Credits)
Presents economic theories to examine business pricing, production, marketing, and profits within different market structures and environments. Topics include: consumer choice and demand; the behavior of firms; market power and structure; the efficiency of competitive markets; externalities and social costs; information and behavior under uncertainty. The course also discusses social costs and benefits of business actions and related ethical and regulatory issues.

BPHD 7012. Financial Statement Analysis. (3 Credits)
An understanding of financial statements and the information they communicate on the operating, investing and financing activities of corporations. Focuses on the impact of financial accounting principles, disclosure standards and alternative accounting practices on financial reports. Examines and evaluates traditional and non-traditional methods of financial statement analysis.

BPHD 8001. Philosophy of Science. (3 Credits)
Provides an understanding of the philosophy, history, theory, and institutions of doctoral-level research in business.

BPHD 8002. Research Methods. (3 Credits)
Provides an understanding of the key elements of theory building, research design and methods.

BPHD 8003. Intro to Micro & Macro. (3 Credits)
Introduction to micro and macroeconomics.

BPHD 8004. Financial Econometrics. (3 Credits)
BPHD 8005. Empirical Capital Markets. (3 Credits)
Provides an understanding of the key elements of the study of capital markets.

BPHD 8006. Data Analysis. (3 Credits)
Provides an understanding of the key elements of contemporary data analysis.

BPHD 8007. Econometrics. (3 Credits)
Overview and in-depth analysis of econometrics theory and practice.

BPHD 8008. Fundamentals of Acct 1. (3 Credits)
Provides insights into how accounting information can be used by investors and creditors to measure the results of business operations.

BPHD 8009. Quantitative Issues in Capital Markets. (3 Credits)
In-depth study of the key quantitative issues in capital markets.

BPHD 8010. Raising Capital & Inv in Glob. (3 Credits)
Provides a comprehensive overview of the going-public decision. Examines the strategies and process of corporate restructuring and investing activities, such as mergers and acquisitions, corporate diversification, spin-offs, carve-outs, asset sell-offs, tracking stock, exchange offers, and debt restructuring.

BPHD 8011. Seminar in Corporate Theory. (3 Credits)
In-depth study of a variety of topics in corporate theory.

BPHD 8012. Quantitative Methods. (3 Credits)

BPHD 8013. Managerial Accounting Analysis. (3 Credits)
In-depth study Managerial Accounting Analysis.

BPHD 8014. Financial Statement Analysis. (3 Credits)
An understanding of financial statements and the information they communicate on the operating, investing and financing activities of corporations. Focuses on the impact of financial accounting principles, disclosure standards and alternative accounting practices on financial reports. Examines and evaluates traditional and non-traditional methods of financial statement analysis.

BPHD 8016. Investment Banking. (3 Credits)
In-depth study of Investment Banking.

BPHD 8017. Seminar in Banking & Finance. (3 Credits)
In-depth study of research questions, theory, and methodology in banking and finance.

BPHD 8018. Research in Economics. (3 Credits)
In-depth study of research in economics.

BPHD 8019. International Economics. (3 Credits)
In-depth study of International Accounting.

BPHD 8020. Empirical Research in Accounting and Capital Markets. (3 Credits)
In-depth study of a variety of topics in accounting and capital markets.

BPHD 8021. International Corporate Tax. (3 Credits)
Introduces the complexities of international taxation by focusing on the U.S. tax system’s impact on U.S. companies investing or operating abroad and on foreign companies investing or operating in the U.S. Topics include tax treaties, foreign tax credits and controlled foreign operations.

BPHD 8022. Web Analytics. (3 Credits)
Web analytics — also referred to as Web metrics, e-Metrics, or e-analytics — is the science of Internet audience measurement and analysis. It deals with the identification, gathering & formatting of Web usage data, the computation and presentation of metrics, and the exploitation of the results, in order to measure web site success. Meaningful insight is gained from traffic and visitor analytics data. It not only covers the unique measurement challenges associated with segmentation, but also comes with strategic recommendations for focusing the entire analytics process - from where to begin to what your larger, overall web analytics goals should be (Google Analytics, IBM ShowCase Web Analysis).

BPHD 8023. Fixed Income Analysis. (3 Credits)
Introduces techniques for valuing fixed income securities and their derivatives. Emphasizes pricing and risk-measurement for government, corporate and mortgage-backed instruments. Analyzes embedded options using the binomial model. Develops fixed-income trading and portfolio management techniques, including the use of repo, futures, options, swaps and credit derivatives. Examines theory and empirical evidence on the term structure of interest rates, including the derivation of spot and implied forward yield curves.
BPHD 8025. Corporate Finance. (3 Credits)
Studies corporate finance and its specific decisions. Topics include evaluating capital expenditure proposals, forecasting financing requirements and selecting sources of financing. The course also discusses working capital management, dividend policy and contingency planning, and addresses the additional challenges of multinational firms.

BPHD 8026. Big Data Analytics. (3 Credits)
This course provides students with an understanding of big data analytics, research, and methods.

BPHD 8027. Advanced Qualitative Accounting and Finance. (3 Credits)
This course provides students with advanced knowledge of qualitative accounting and finance.

BPHD 8028. Empirical Research in Accounting: Financial Instruments, and Debt Contracting. (3 Credits)
This course provides advanced knowledge of banking, financial instruments, and debt contracting.

BPHD 8029. Empirical Research in Financial Accounting. (3 Credits)
This course provides advanced knowledge of financial accounting.

BPHD 8030. Macro-Finance. (3 Credits)
This course covers advanced topics at the intersection of macroeconomics, monetary economics, banking, and international finance.

BPHD 8031. Advanced Capital Markets Seminar 1. (3 Credits)
This advanced seminar addresses the core issues related to the raising of capital, long-term financial investments, and the financial services industry in a global context. The course will consider case studies, theoretical writing, and hands-on modeling.

BPHD 8032. Advanced Quantitative Accounting and Finance. (3 Credits)
This course addresses the skills necessary to perform advanced analyses of major issues and problems in accounting and finance. The course will consider theoretical and methodological approaches with empirical applications.

BPHD 8033. Financial Accounting. (3 Credits)
Students in this course develop the ability to analyze and interpret financial statements and study the effects of alternative accounting standards and practices on income statements, balance sheets, and statements of cash flows.

BPHD 8034. Applied Microeconometrics. (3 Credits)
The primary goal of this course is to improve students' ability to conduct high-level empirical research, combining economics, econometrics, and data. The course will cover instrumental variables estimation, regression discontinuity, propensity score matching, control function approach, randomized control trials, static panel data models, and dynamic panel data models. The course is intended to be particularly useful for advanced Ph.D. students and master's students planning to write or currently writing a thesis. The course will mainly draw on a series of high-quality journal publications from the field of applied microeconomics that use the aforementioned applied econometric techniques for causal inference.

BPHD 8035. Seminar in Theoretical Corporate Finance. (3 Credits)
This course considers the theoretical underpinnings of corporate finance, with particular attention paid to the history of corporate finance and contemporary theoretical studies. The course seeks to address the core issues related to funding, capital structure, firm value, and how these abstractions inform our empirical view of corporate finance today.

BPHD 8036. FinTech & Machine Learning. (3 Credits)
A comprehensive survey of the tools related to the burgeoning fields of financial technology and machine learning in a business context. The course addresses technology and innovation and their relationship to financial services, as well as the algorithms and statistical models that may be deployed to help build these systems.

BPHD 8037. Financial Modeling. (3 Credits)
This course helps students develop the type of Excel-based financial models that businesses use every day to analyze a wide range of financial problems and make decisions. Students deliver written and oral presentations of their models and practice skills critical for a successful career in finance.

BPHD 8038. Advanced Corporate Finance. (3 Credits)
This course teaches students the art of applying corporate finance theory, providing them with tools and techniques essential to strategic decision-making in critical real-life situations faced by organizations. The course enhances students' understanding of corporate finance by providing a comprehensive examination of selected advanced topics, such as alternative valuation methods, real options in corporate finance, decision trees, international operations, mergers and acquisitions, risk arbitrage, debt capacity and leveraged buyouts, private equity, warrants and convertibles, and ethical issues.

BPHD 8039. Fundamentals of Strategy. (3 Credits)
Students in this course focus on defining an organization's mission, establishing its objectives, developing strategies for achieving those objectives, and assuring implementation and continual updating of long-term plans. This course integrates the knowledge and skills developed in the core courses.

BPHD 8090. Dissertation 1. (3 Credits)
Supervised dissertation hours.

BPHD 9001. Topics in Business Research 1. (1.5 Credits)
In-depth study of a variety of theoretical and empirical topics in business disciplines.

BPHD 9002. Topics in Business Research 2. (1.5 Credits)
In-depth study of a variety of theoretical and empirical topics in business disciplines.

BPHD 9003. Topics in Business Research 3. (1.5 Credits)
In-depth study of a variety of theoretical and empirical topics in business disciplines.

BPHD 9004. Topics in Business Research 4. (1.5 Credits)
In-depth study of a variety of theoretical and empirical topics in business disciplines.

BPHD 9005. Topics in Business Research 5. (1.5 Credits)
In-depth study of a variety of theoretical and empirical topics in business disciplines.

BPHD 9006. Topics in Business Research 6. (1.5 Credits)
In-depth study of a variety of theoretical and empirical topics in business disciplines.

BPHD 9007. Empirical Issues in Bus Rsrch. (3 Credits)
Provides an understanding of empirical issues in business research.

BPHD 9008. Quantitative Analysis I. (1.5 Credits)
In-depth study of quantitative analysis.

BPHD 9009. Quantitative Analysis II. (1.5 Credits)
Continuing in-depth study of quantitative analysis.
BPHD 9010. Empirical Issues in Research 2. (3 Credits)
Provides a continuing understanding of empirical issues in business research.

BPHD 9011. Empirical Issues in Business Research 3. (3 Credits)
This course provides a continuing understanding of empirical issues in business research.

BPHD 9012. Topics in Business Research 7. (1.5 Credits)
This course offers an in-depth study of a variety of theoretical and empirical topics in business disciplines.

BPHD 9014. Blockchain. (1.5 Credits)
Students in this course will explore the role currency plays in the economy; the emerging technologies pioneering new forms of digital money; and the impact these technologies will have on currency, the economy, and the broader category of capital.

BPHD 9015. Digital Currencies. (1.5 Credits)
This course will explore specific examples of new technologies being used to develop new forms of currency and digital money, and redefine the broader category of capital. The course will use real products and services to explore these topics.

BPHD 9030. Machine Learning and Text Mining 1. (1.5 Credits)
This course covers technical topics of web and text mining methodologies and research studies in the area of design science and social computing.