School of Management

Overview

Purdue University's Krannert School of Management is dedicated to the discovery, preservation and dissemination of knowledge and to the professional and personal development of its students. Krannert's faculty has a deep commitment to scholarship that inspires both the creation and the critical evaluation of new ideas and insights. Krannert's curricular and extra-curricular programs are designed to allow students to have daily interaction with the faculty, staff and each other, working in diverse teams to solve problems, creating a student centric environment for learning and experimenting with new ideas and insights.

The school's academic programs are designed to prepare students for lives of active and productive citizenship. To that end, those programs begin with a solid foundation of courses in the Core Curriculum including the arts, sciences and mathematics intended to develop a rigorous, analytical foundation, a wide intellectual curiosity and an appreciation for the breadth and diversity of the means by which we come to understand our world. Students have flexibility to choose some of these courses to reflect their personal interests and goals.

Rising out of that foundation in the junior and senior years is a demanding professional education designed to further sharpen the student's analytical and decision-making abilities through exposure to the challenges confronted by the various management functions of finance, production, marketing, human resources, strategic planning, management information systems and related areas. It is this core of analytical, often mathematically based, instruction in the latest principles of management and quantitative methods that is the hallmark of management education at Purdue. In advanced classes, frequent discussion of carefully chosen case studies helps students to gain facility in the application of these principles within a broad range of management contexts. Students have opportunities to work with professionals from the "real world" in workshops, student clubs, industry-sponsored case competitions, and summer internships. To prepare for work in a global setting, students are encouraged to investigate study-abroad trips and international service-learning courses.

Admissions


Advising

Each student has an assigned academic advisor. Students meet with their advisors at least once a semester. Advisors mentor and coach students in the Launching Business Leaders competencies and portfolio. Advisors are happy to answer questions, refer students to appropriate resources, and help them achieve their goals.

High-achieving students are given opportunities to participate in the Krannert Leaders Academy throughout their degree programs, working with special advisors and support staff. The Academy houses both professional and educational programs that bring student into contact with networks of their like-minded peers, faculty and professional managers.

Krannert Building, Room 352
403 West State Street
West Lafayette, IN 47907
Contact Information

Mailing address
Krannert Building
403 W. State Street
West Lafayette, IN 47907-2056

Rawls Hall
100 S. Grant Street
West Lafayette, IN 47907-2076

Krannert Center for Executive Education
425 W. State Street
West Lafayette, IN 47907-2056

School of Management Administration and Instruction

Management Overview

All organizations, large and small, need managers. They effectively lead, coordinate and communicate innovative solutions in all aspects of an organization from operations to human resources. Managers are adaptable leaders with strong roots in analytics, complemented by solid communication skills that help their organizations compete in the business world. The characteristics of Krannert graduates are a strong work ethic, analytical strengths and good communication skills.

A multi-functional approach to coursework allows you to discover different business areas at the same time like finance, strategy, law and organizational behavior. You'll refine your critical thinking, communication and analytical skills as you explore these different aspects of business. Students can add concentration areas to focus on specific interests.

Graduate pursue many different careers. Some begin in corporate management rotational programs, as account executives or as project managers and proceed to start their own businesses. Some go for the C-suite job and become CEOs and CFOs. You will find Krannert management graduates in companies like Boeing, General Motors, IBM, Amazon.com, Google, United Technology, Purdue University and Target Corporation.

About the Economics Program

Welcome to Purdue University's Department of Economics. The Department, located in the Krannert School of Management, has a long tradition of excellence in research and teaching. Economics faculty members are leaders in their respective fields. The Economics Department offers both undergraduate and graduate degree programs. For undergraduates students, the Department offers two Baccalaureate degrees, a Bachelor of Science (BS) degree in Economics through the Management School and a Bachelor of Arts (BA) degree through the College of Liberal Arts. We also offer an Economics Honors Program and a Minor in Economics. For more information on these undergraduate programs, please follow the links under Programs below.

Faculty
Contact Information

The Krannert School of Management
Krannert Building, Third Floor
The Webster Undergraduate Programs Suite
403 W. State Street
West Lafayette, IN 49707
(765) 494-4343
management@purdue.edu

Economics Department
Purdue University
Krannert Building
403 W. State Street
West Lafayette, Indiana 47907-2056

Phone: Advising Office (765) 494-4343
Fax: (765) 494-9658

Graduate Information

For Graduate Information please see Management Graduate Program Information.

Accounting, BS

About the Program

Accounting Accountants help businesses and organizations solve problems and succeed in a rapidly changing, globally competitive environment. Our graduates join a network of Purdue alumni who hold important positions in organizations around the world. For example, Beth Brooke-Marciniak, CPA and Global Vice Chair - Public Policy at EY, has once again been named to the Forbes List of 100 Most Powerful Women. Our graduates place nationally with Big 4 accounting firms, regional public accounting firms, Fortune 1000 companies, consulting firms, small corporations, not-for-profits and government agencies across the U.S. and internationally.

Four Outstanding Programs:

- Our undergraduate accounting major is a 120 credit hour program that provides students with the foundation for successful careers in accounting and business or for graduate study.
- Our Certificate of Advanced Accountancy program adds a 5th year to the undergraduate accounting major and puts students on an educationally sound path to the 150 credit hours needed to take the Uniform CPA exam in most states.
Our Masters of Science (Accounting) degree is a two-semester, 30 credit hour program that features a flexible curriculum with field consulting opportunities with start-ups and non-profits. Students tailor their coursework to their career goals while becoming CPA-exam ready.

Our Ph.D Program in Accounting prepares students for careers as researchers and teachers. Our graduates have published their research in top accounting journals and are recognized for their rigorous analytical training. While studying at Purdue, accounting students have ample opportunities for professional development and networking through student organizations sponsored by the Accounting Area. The Accounting Area is committed to Purdue's mission of creating and disseminating knowledge. Over the last several years, our faculty members and recent Ph.D. graduates publish their research in top academic journals and present it conferences around the world.

Degree Requirements and Supplemental Information

The full Program Requirements for Accounting include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: ACCT-BS
Code: ACCT
Credit hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum

Required Major Upper Division Courses (48 credits)

OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

MGMT 31000 - Financial Management
Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

MGMT 35000 - Intermediate Accounting I

Credit Hours: 3.00. Financial reporting for interested external parties. Emphasis on asset valuation, income measurement, and preparation of financial statements, and on appreciation of discretion available to preparers. Typically offered Fall Spring.

MGMT 35100 - Intermediate Accounting II

Credit Hours: 3.00. Continuation of Intermediate Accounting I. An examination of additional problems in financial reporting, including long-term assets, liabilities, owners’ equity, income taxes, earnings per share, leases, and pensions. Typically offered Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and
discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**MGMT 50300 - Advanced Accounting**

Credit Hours: 3.00. Advanced course in financial accounting. A range of contemporary issues in financial reporting, such as business combinations, investments, consolidations, inflation, multinational, and tax allocation are covered. Both technical proficiency and user applications are emphasized. Typically offered Fall Spring.

**MGMT 50400 - Tax Accounting**

Credit Hours: 3.00. Basic tax course designed to provide an understanding of the various federal taxes, including income, gift, estate, excise, federal insurance contribution, self-employment, and unemployment taxes. Typically offered Fall Spring.

**MGMT 50500 - Management Accounting II**

Credit Hours: 3.00. The focus of the course is managerial decision making and the economic role of information. Topics covered include decentralized financial performance evaluation, cost analysis, and financial planning and control systems. Typically offered Fall.

**MGMT 50600 - Auditing**

Credit Hours: 3.00. A study of the concepts and procedures of auditing, which is the systematic process of objectively obtaining and evaluating evidence regarding assertions about economic actions and events. Primary emphasis is on audits conducted by independent certified public accountants, but topics covered apply to internal auditing as well. Typically offered Spring.

- Professional Elective http://krannert.purdue.edu/undergraduate/current-students/home.php - Credit Hours: 3.00
- Professional Elective http://krannert.purdue.edu/undergraduate/current-students/home.php - Credit Hours: 3.00

Other Departmental/Program Course Requirements (53 credits)

**MGMT 29500 - Professional Career Management**
Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management’s internal use of accounting information— for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models
Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology
- International Elective - Credit Hours: 3.00
- University Core: Human Cultures Humanities - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science, Technology & Society - Credit Hours: 3.00

**MAI Core**

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**
Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**MA 16010 - Applied Calculus I**

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

**MA 16020 - Applied Calculus II**

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

**Electives (19 credits)**

The number of general electives will vary for each student and can include AP credit, transfer credit, and/or Credit by Exam.

**Management Admissions Index (MAI) Core Requirements**

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 3.00 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for upper division can be found online: [http://www.krannert.purdue.edu/undergraduate/current-students/mgmt/mgmt-req-upper-div.asp](http://www.krannert.purdue.edu/undergraduate/current-students/mgmt/mgmt-req-upper-div.asp)
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- School of Management, MAI, and concentration courses with grades of "F" cannot be replaced by a transfer course.
- Previous enrollments in MA 16100, MA 16200, MA 16500, MA 16600 do not count against the retake policy for the MAI.
University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website or click here.

General Information

- MGMT, OBHR and ECON courses numbered 30000 or higher can only be taken after being admitted to Upper Division.
- Transfer credit for upper level MGMT, OBHR and ECON courses will only be considered if taken at a 4 year AACSB accredited school, (www.aacsb.edu).
- Courses taken on approved Krannert study abroad programs may be used to satisfy degree requirements. Students participating in a Purdue approved study abroad program are registered as full-time Purdue students during their semester abroad. Schedule an appointment with your advisor to discuss study abroad opportunities.
- Minors outside of the School of Management are also available.
- Information on summer courses is available at www.purdue.edu/thinksummer.
- Refer to myPurduePlan at www.mypurdue.purdue.edu for degree requirements

Accounting Professional Electives

Professional Electives include the MGMT or ECON classes at the 30000 level or higher on this list by major. Up to 3 credits of EPICS courses at the 30000 level or higher may be used. 6 credits at the 30000 level or higher taken at an approved Krannert study abroad program may be used with advisor approval and used as a Professional Elective. Courses marked (***) can also be applied towards the International Elective requirements.

**ECON 34000 - Intermediate Microeconomic Theory**

Credit Hours: 3.00. Topics from consumer behavior and demand, decisions under uncertainty, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Typically offered Fall Spring.

**ECON 35200 - Intermediate Macroeconomics**

Credit Hours: 3.00. Continuation of ECON 25200. A more rigorous, general equilibrium treatment of macroeconomic theory with emphasis on the components of the model: determinants of consumption, investment, net exports and foreign exchange rates, the level of unemployment, inflation and the long-run rate of economic growth. Typically offered Fall Spring.
ECON 36000 - Econometrics

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate casual effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

ECON 36100 - Antitrust And Regulation

Credit Hours: 3.00. The course studies the influence of laws and regulations on the behavior of firms, focusing on two types of government intervention in the market: antitrust law and economic regulation. Antitrust laws define the rules by which firms must compete. Economic regulation more tightly constrains the actions of firms, requiring that they obtain approval to set prices and/or enter new markets. The focus is on current topics in both areas, including comparison of U.S. practice with that of European Union and elsewhere. Typically offered Spring.

ECON 36500 - History Of Economic Thought

Credit Hours: 3.00. The course traces the development of theories of value and economic growth from the seventeenth century to Karl Marx. Among the authors studied are the mercantilists, Hume, Smith, Ricardo, and Marx. Excerpts from the original works are read and evaluated in light of modern theory. Typically offered Spring.

ECON 36700 - Law And Economics

Credit Hours: 3.00. It has become increasingly clear to economists, legal scholars and political scientists that it is impossible to understand economic institutions without first having an understanding of the legal framework within which they operate. Similarly, it is impossible to understand the impact of law on society without first having an understanding of economic principles. This problem is further complicated by the fact that there are often ambiguities in the written law that lead to significant differences between what the law appears to say and how the law is interpreted in the courts. This course is designed to give the student an understanding of both legal and economic principles and the relationship between them. Finally, through the use of economic analysis, the student will acquire the tools to predict the likely outcomes of particular laws and how they will affect their family and business decisions. Typically offered Fall Spring Summer.

ECON 36800 - Economics And Values

Credit Hours: 3.00. Explores some specific critiques of stereotypical neoclassical economics; utilizes notions of knowledge, learning, rationality, logic, science, and scholarship that tend to complement those found in many conventional economics courses; raises questions about the roles of values in both individual decision-making and in economic thinking, as well as about the interrelation of economic concepts and issues of ethics, justice, and care at both the individual and the social level; embodies interactive, reflective learning. Typically offered Spring.
ECON 37000 - International Trade

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

ECON 38000 - Money And Banking

Credit Hours: 3.00. The course analyzes the economics of money, monetary systems, investments, and financial intermediaries in modern industrial economies. Topics considered include the origin of money and the banking industry, financial asset markets, the role of central banks, and the effects of various monetary policies. The theory will be presented side by side with current economic and financial news, and the students will learn how to track financial and economic data via The Wall Street Journal. Typically offered Fall Spring.

ECON 38500 - Labor Economics

Credit Hours: 3.00. The purpose of this course is to introduce important topics, theories, institutions, and policy issues relating to the functioning of labor markets. Topics to be considered include labor supply decisions, investments in human capital, compensating wage differentials, labor contract theory, unions, compensation programs, signaling in labor markets, the economics of unemployment, and government employment, retirement, and workplace safety. Typically offered Fall Spring.

ECON 39000 - Junior Level Problems In Economics

Credit Hours: 1.00 to 4.00. Investigation into a specific topic area of economics. Permission of instructor required. Typically offered Fall Spring Summer.

- ECON 39000 - Junior Level Problems In Economics Economics of the European Union

ECON 39040 - Economics Internship

Credit Hours: 1.00. A Economics related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Economics. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

ECON 41900 - Managerial Economics

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics
include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**ECON 42200 - Public Finance And Taxation**

Credit Hours: 3.00. This course examines the role of government in market economies. The aim of the course is to provide an understanding of the reasons for government intervention in the economy and how individuals and firms respond to taxation and other government actions and how to evaluate the benefits of public programs. For example, what effects do taxes have on incentives to work, save, and invest? Emphasis is placed on current U.S. policy issues including Social Security, health care, education, environmental regulation, welfare programs, and tax reform. Typically offered Spring.

**ECON 45100 - Game Theory**

Credit Hours: 3.00. In the course, economic, political, and social interactions are represented as games, in which strategies and resulting outcomes can be analyzed. The analysis of these interactions is then used to demonstrate how one can make optimal decisions under uncertainty. Typically offered Fall Spring.

**ECON 45600 - Urban Economics**

Credit Hours: 3.00. Examines the market forces that lead to the development, growth, and size of cities. In addition, this course covers the theory of location and land use, principles of local public finance, policy problems in the areas of urban housing, transportation, crime, and pollution. Typically offered Spring.

**ECON 46000 - Econometrics**

Credit Hours: 3.00. This course examines the statistical techniques used in testing economic theory. Emphasis is placed on estimating a single equation (e.g., a demand function) and the problems associated with such estimation. As part of the course, students will estimate equations on the University's computational facility. Typically offered Spring.

**ECON 46100 - Industrial Organization**

Credit Hours: 3.00. This course examines the determinants of firm and market structure and the resulting market performance in imperfectly-competitive markets. Advanced topics include advertising, research and development, imperfectly competitive international markets, and market integration. Emphasis is placed on using theoretical models of firm and industry behavior to explain and analyze real-world examples of firm behavior. Typically offered Fall.

**ECON 46600 - International Economics**

Credit Hours: 3.00. Analyzes topics in international economics, using more advantage techniques and more detailed treatment.
than in ECON 37000 or ECON 37100. While coverage varies somewhat with instructor, some topics could include: economic growth, innovation and technology transfer, and the role of multinational corporations. Typically offered Fall Spring.

**ECON 47000 - Transportation Economics**

Credit Hours: 3.00. Building upon basic economic principles, this course introduces the student to mainstream areas in transportation economics including market demand and supply, market structure, transportation investment, marginal cost pricing, cost-benefit analysis, land use and transportation, transportation safety, and government intervention. Blending theory with application, the course takes a case study approach in drawing upon a wealth of empirical work on highways, railroads, motor carriers, airlines, and water carriage. Typically offered Spring.

**ECON 47100 - Behavioral Economics**

Credit Hours: 3.00. Students learn about human behavior in economic environments, with a strong emphasis on classroom laboratory exercises. Topics considered include behavior in a variety of markets - for example, markets with price controls, markets for financial assets and auction markets -- and behavior in social dilemmas that arise when people try to provide public goods voluntarily or when sellers try to conspire to fix prices. Students will also learn how people bargain with, trust each other, and show social preferences towards others. Decision-making and anomalies for risky and uncertain choices will also be covered. Typically offered Fall Spring.

**ECON 49900 - Senior Honors Thesis**

Credit Hours: 3.00. Execution by economics honors students of a senior honors thesis under the direction and supervision of the faculty. In addition to a paper, completion of the research project may involve the presentation of the findings in a seminar or workshop setting. Permission of Instructor required. Typically offered Spring.

**MGMT 30400 - Introduction To Financial Management**

Credit Hours: 3.00. Introductory course providing a foundation in corporate finance and covering topics such as: discounted cash flow valuation, bond valuation, equity valuation, option valuation, factors influencing a firm's cost of capital, and international finance issues. Typically offered Fall Spring.

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**MGMT 38199 - Professional Practice Co-Op I**
Credit Hours: 0.00 to 3.00. Professional practice with qualified employers within industry, government, or small business. Typically offered Fall Spring Summer.

**MGMT 38299 - Professional Practice Co-Op II**

Credit Hours: 0.00 to 3.00. Professional practice with qualified employers within industry, government, or small business. Industrial Practice Fee is attached to this course. Typically offered Fall Spring Summer.

**MGMT 38399 - Professional Practice Co-Op III**

Credit Hours: 0.00 or 1.00. Professional practice with qualified employers within industry, government, or small business. Industrial Practice Fee is attached to this course. Typically offered Fall Spring Summer.

**MGMT 39000 - Junior Level Problems In Management**

Credit Hours: 0.00 to 4.00. The Accounting Internship provides work experience in businesses or other institutions. Permission of instructor required. Typically offered Fall Spring Summer.

- MGMT 39000 - Junior Level Problems In Management Women in Management
- MGMT 39000 - Junior Level Problems In Management Current Business Topics & Law
- MGMT 39000 - Junior Level Problems In Management Employment Law

**MGMT 39010 - Accounting Internship**

Credit Hours: 1.00. An Accounting, Economics, Industrial Management or Management related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Accounting, Economics, Industrial Management or Management. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39020 - Management Internship**

Credit Hours: 1.00. An Accounting, Economics, Industrial Management or Management related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Accounting, Economics, Industrial Management or Management. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39030 - Industrial Management Internship**
Credit Hours: 1.00. An Accounting, Economics, Industrial Management or Management related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Accounting, Economics, Industrial Management or Management. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39040 - Economics Internship**

Credit Hours: 1.00. An Accounting, Economics, Industrial Management or Management related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Accounting, Economics, Industrial Management or Management. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39050 - Finance Internship**

Credit Hours: 1.00. A Finance related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Finance. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39060 - Human Resource Internship**

Credit Hours: 1.00. A Human Resource related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in HR. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39070 - Management Information Systems Internship**

Credit Hours: 1.00. A Management Information Systems related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in MIS. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39080 - Manufacturing, Operations, Supply Chain Internship**

Credit Hours: 1.00. A Manufacturing, Operations, or Supply Chain related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Manufacturing, Operations, or Supply Chain. A letter from the prospective employer stating the period of employment, hours per week, job title,
job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39090 - Marketing/Sales Internship**

Credit Hours: 1.00. A Marketing/Sales related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Marketing/Sales. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 40100 - Krannert Executive Forum**

Credit Hours: 1.00. A lecture-discussion course featuring executives from business firms and other organizations. Emphasis is placed on the actual practice of management in corporate America, on career selection and mobility, on styles of management, and on other topics not normally covered in undergraduate courses. Typically offered Fall Spring.

**MGMT 40300 - Database Management Systems**

Credit Hours: 3.00. Intensive study of computer-based tools and methods for developing information systems for accounting and other managerial applications. The course concentrates on data base management techniques as the foundation for construction information systems. The coverage has a highly practical orientation. Specific topics include tool selection criteria, file management techniques, data base management concepts, comparative study of the major data models, schema design methodology, procedural and nonprocedural access languages, data security, data integrity, performance tuning, multiuser processing, and software integration. Typically offered Fall Spring.

**MGMT 40500 - Six Sigma And Quality Management**

Credit Hours: 3.00. The course is an undergraduate elective offered as part of the Center for Manufacturing Management Enterprises (CMME) quality initiatives. Provides an overview of various tools and methods for total quality management. Typically offered Fall Spring.

**MGMT 41100 - Investment Management**

Credit Hours: 3.00. Examination of investment alternatives relevant to the individual and/or family-unit investor. Operations of the markets in which securities are traded. Theory and application of security valuation, portfolio construction, capital markets, and performance evaluation. Particular attention given to fixed income securities, common stocks, options, investment companies, and other popular investment alternatives. Typically offered Fall Spring.

**MGMT 41200 - Financial Institutions And Markets**
Credit Hours: 3.00. Introduction to financial markets and management of financial institutions. Emphasis on determinants of interest rates, and measurement and management of financial risk. Concentration on management of depository firms such as banks and savings and loans. Typically offered Fall Spring Summer.

**MGMT 41300 - Corporate Finance**

Credit Hours: 3.00. The course provides the theoretical and problem-solving tools needed in entry-level financial analysis positions in a corporate, commercial lending, or investment banking setting. Topics include corporate valuation, cash flow forecasting, project evaluation, capital structure, dividend policy, capital acquisition, and mergers/acquisition. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 41601 - Corporate Mergers And Acquisitions**

Credit Hours: 3.00. The financial analysis of corporate acquisitions, mergers, and reorganizations including asset acquisitions, joint ventures, spin-offs, sell-offs, equity carve-outs, bankruptcy proceedings and reorganizations, and corporate governance. The course uses a combination of lectures, readings, and case analysis. Typically offered Fall Spring Summer.

**MGMT 42110 - Marketing Analytics**

Credit Hours: 3.00. This course covers essential decision models and strategic metrics that form the cornerstone of marketing analytics. Using the insight gained in the course, students can predict the outcome of marketing plans to boost return on marketing investment (ROMI). The course emphasizes hands-on learning so students can immediately apply the tools and techniques. A variety of relevant topics are discussed, such as market sizing, forecasting and positioning, promotion budget allocation, profit maximization, and communicating to senior executives through data-driven presentations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.
MGMT 42300 - New Product Development

Credit Hours: 3.00. Provides an overview of the new product development process. Detailed insights are provided in the "fuzzy front end" of this process. Targeting positioning, and product decisions are also covered. The second half of the course completes the marketing mix and covers various market testing and product launch issues. Typically offered Fall Spring.

MGMT 42310 - Global Marketing Management

Credit Hours: 3.00. Most US businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

MGMT 42500 - Marketing Research

Credit Hours: 3.00. The purpose of this course is to develop skills in the planning and execution of market research studies designed to acquire useful information for marketing decisions. It aims to familiarize students with techniques of research design, data collection, and analysis. Emphasis is placed on evaluating the results obtained from such investigations. Typically offered Fall Spring.

MGMT 42610 - Brand Management

Credit Hours: 3.00. This elective course is mainly for students having a marketing concentration and focuses on the issues of how to build brand equity, how to measure brand equity, and how to manage and/or grow the brand of interest. Typically offered Fall Spring.

MGMT 42710 - Digital And Social Media Marketing

Credit Hours: 3.00. Digital marketing is where marketing meets the internet, wireless devices, and other digital media. The course covers a variety of topics including online advertising, search engine optimization, participation in social media, online listening and monitoring, and web and social media analytics. In the online marketing challenge each student team is given $250 to promote a chosen business via Google Adword platform (including search engine advertising and regular online advertising). Typically offered Fall Spring.

MGMT 44362 - Leadership & Organizational Change

Credit Hours: 3.00. Economic growth and prosperity requires that organizations have effective leaders. Fortunately, we can learn how to be better leaders. There is an impressive body of research about leadership theory and practice. Cases reflecting leader
successes and failures can be used to improve leadership and avoid pitfalls. Leadership can be invigorating, challenging, and rewarding. It can also be stressful and attract criticism. In this course, we will consider a multitude of perspectives on leadership theory and practice. We will consider leadership in the context of organizational change. However, the principles of ethics and integrity will not be subject to change as they are fundamental to effective leadership. Typically offered Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**MGMT 44429 - Employee Relations And Performance Management**

Credit Hours: 3.00. This course focuses on the employer-employee relationship at work, and how managers work with employees to improve employee performance. Attention is given to the history of labor relations and performance management in work settings, with an emphasis, however, on contemporary approaches to managing the employer-employee relationship and the systems for managing employee performance. Typically offered Fall Spring.

**MGMT 44500 - Introduction To Investments And Portfolio Management**

Credit Hours: 3.00. Introduction to investments and portfolio management for non-management students. Covers characteristics of stock, bonds, portfolios, and financial markets. Includes introduction to interest rates and time value of money. Typically offered Fall Spring Summer.

**MGMT 44690 - Negotiation And Decision Making**

Credit Hours: 3.00. The purpose of this course is to understand the theory and processes of negotiation so that you can negotiate successfully in organizational and management settings. This course covers a wide variety of negotiation problems faced by business people. In addition, models of effective and ineffective decision-making are introduced and students will have the opportunity to make decisions at both the individual and group levels. Typically offered Fall Spring.

**MGMT 44710 - Competitive Strategy**

Credit Hours: 3.00. This course studies how entrepreneurs and general managers might create investor value (above-normal returns) through the development and implementation of competitive strategies around market entry, exit, or expansion. Competitive strategy is a critical input to these firm decisions. To that end, we discuss and apply the key analytic competitive strategy concepts, frameworks and tools. Typically offered Spring.

**MGMT 44810 - Technology Strategy**
Credit Hours: 3.00. In today's business environment, it is increasingly apparent that business success is driven by a firm's ability to create and capture value through technology and innovation. Thus, the processes used by firms to develop new technologies, the choices they make regarding how to commercialize their technical knowledge, and the strategies they used to position and build a dominate competitive position all are important issues facing the firm. This course seeks to develop tools for understanding industry evolution with respect to new technology, forecast technological change, and understand the basis for technology in competitive advantage. Typically offered Spring.

MGMT 45200 - Manufacturing Strategy And Process Innovation

Credit Hours: 3.00. This course examines the management challenges posed by the growth in worldwide manufacturing capabilities, markets, and competition and by rapid advances in technology and the concomitant decline in product life cycles. The manufacturing function is considered within a broader context encompassing design, engineering, purchasing, marketing, and customer service in an effort to assess the degree to which existing management structures successfully meet the challenges arising from the changing manufacturing environment. Typically offered Fall Spring.

MGMT 45300 - Labor And Employment Law

Credit Hours: 3.00. A study of the common law and statutory law affecting union-management relations, with emphasis on current labor legislation including such areas as the National Labor Relations Act and amendments, the Railway Labor Act, wage and hour legislation, workmen's compensation, unemployment compensation, Occupational Health and Safety Acts and social security laws. Typically offered Fall Spring.

MGMT 49000 - Problems In Industrial Management

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.

MGMT 45600 - Legal Foundations For Business II

Credit Hours: 3.00. A study of commercial law as prescribed by the Uniform Commercial Code, including the law of sales, documents of title, negotiable instruments, and the law relating to security interests. Additional material is presented covering the legal aspects of real estate transactions and personal property transfer. Typically offered Fall Spring.

MGMT 45700 - Legal Background For Business II

Credit Hours: 3.00. Course content same as MGMT 45600. No credit for students in the School of Management. Typically offered Fall Spring Summer.

MGMT 45800 - The Regulatory Process, Consumerism, And Public Policy
Credit Hours: 3.00. A legal analysis of the administrative process and regulatory agencies as they influence business decisions. Included will be a discussion of (1) concepts of the regulatory process from legal, economic, and social aspects; (2) administrative agencies and regulatory process; (3) legal and social implications of consumerism movement; and (4) impact of antitrust legislation on business decisions and conduct. Typically offered Summer Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**MGMT 46100 - Management Operations**

Credit Hours: 3.00. An introductory course concerned with the management of production, distribution, and service system operations. The topics covered include facilities planning, job design, materials control, workforce planning, and product quality. Typically offered Fall Spring.

**MGMT 46200 - Advanced Manufacturing Planning And Control Systems**

Credit Hours: 3.00. An intensive individual computer lab supplements lectures examining the role of computerized information and control systems in manufacturing. An elaborate series of case studies, enlivened by advanced computer simulations, bring together production planning, master scheduling, materials planning, short-range capacity planning, production floor execution, and quality control. Students plan and execute the production and purchasing of all parts, aided by an integrated MRP/capacity planning/shop-floor control system built into the computer simulation. Typically offered Fall.

**MGMT 46300 - Supply Chain Analytics**

Credit Hours: 3.00. Supply Chain Analytics focuses on data-driven and rigorous decision making in supply chain management. It is a complete problem solving and decision making process, and integrates a broad set of analytical methodologies that enable the creation of business value. MGMT 30600 is highly recommended but not required. Basic Calculus, Statistics, and Excel literacy are required. Typically offered Fall Spring Summer.

**MGMT 46400 - Logistics: Concepts And Models**

Credit Hours: 3.00. Studies the role of transportation and distribution channel, and the relations with other supply chain supply activity such as inventory control. Topics include forecasting, logistics system, facility location, distribution strategy, inventory control, supply chain contract, and so on. Typically offered Fall.
MGMT 47000 - Transport Management I

Credit Hours: 3.00. Basic concepts and models for the transporting and distributing function. Typically offered Fall Spring.

MGMT 47100 - Transport Management II

Credit Hours: 3.00. Application of the trends in modern management to transportation, with emphasis on effective coordination and control. Typically offered Fall Spring.

MGMT 47200 - Advanced Spreadsheet Modeling And Simulation

Credit Hours: 3.00. This course covers up-to-date and practical spreadsheet modeling tools that can be applied to a wide variety of business problems from finance, marketing, and operations. The topical coverage consists of the following five modules: (1) Excel functions, skills and financial models; (2) deterministic and stochastic optimization techniques to determine the best managerial actions under internally-and/or externally-imposed constraints; (3) probability distribution fitting techniques to find the most likely description of the uncertainty in future business; (4) simulation modeling techniques to discover and analyze the risk and uncertainties in business environment and processes; (5) application of spreadsheet modeling and simulation techniques in forecasting asset dynamics (stock price) and pricing options and real investment opportunities. This course provides hands-on experience of computer application using Microsoft Excel and the spreadsheet add-ins @RISK, RISKOptimizer, SimQuick, etc. Typically offered Spring.

MGMT 48000 - Elements Industrial Management

Credit Hours: 3.00. An analytical treatment of basic problems of general management in industrial organizations, combining lectures, case studies, and readings and building on earlier course work in economics, quantitative methods, industrial relations, and general management. Typically offered Fall Spring.

MGMT 48100 - Contemporary Management Philosophy

Credit Hours: 3.00. A lecture-discussion course which features presentations by outstanding business and government executives. Emphasis is placed on the basic problems faced by contemporary senior management and their effects upon the organization. Typically offered Fall Spring.

MGMT 48400 - Management Of Entrepreneurial Ventures

Credit Hours: 3.00. This course teaches skills required to become an entrepreneur, succeed in a start-up venture, work in venture capital, join a family business, or develop a franchise operation. Students will learn about how to identify and shape emerging market opportunities, innovate new business models, prepare and evaluate business plans, raise capital, build a skilled founding team, network for resources, and grow an initial market. Typically offered Fall Spring.
MGMT 48800 - Electronic Commerce And Information Strategies

Credit Hours: 3.00. Discuss the new business models in electronic commerce that have been enabled by Internet technologies and analyze the impact these technologies and business models have on industries, firms and people. Typically offered Spring.

- MGMT 49000 - Problems In Industrial Management Managing in Developing Economies
- MGMT 49000 - Problems In Industrial Management Experiential Marketing

EPCS 30100 - Junior Participation In EPICS

Credit Hours: 1.00. Continuation of EPCS courses (see EPCS 10100). The responsibilities of juniors include working with the seniors in the planning and organization of the project, contributing to the design process, problem solving by contributing expertise from their discipline, meeting with the customer, and the mentorship of sophomores and freshmen. EPCS 30100 is offered for 1 credit. The EPICS procedures manual provides information on expected relative workload for EPCS 30100 and EPCS 30200 students. May not be taken concurrently with EPCS 30200. Typically offered Summer Fall Spring.

EPCS 30200 - Junior Participation In EPICS

Credit Hours: 2.00. Continuation of EPCS courses (see EPCS 10100). The responsibilities of juniors include working with the seniors in the planning and organization of the project, contributing to the design process, problem solving by contributing expertise from their discipline, meeting with the customer, and the mentorship of sophomores and freshmen. EPCS 30200 is offered for 2 credits. The EPICS procedures manual provides information on expected relative workload for EPCS 30100 and EPCS 30200 students. May not be taken concurrently with EPCS 30100. Typically offered Summer Fall Spring.

EPCS 40100 - Senior Participation In EPICS

Credit Hours: 1.00. Continuation of EPCS courses (see EPCS 10100). Seniors are responsible for the management tasks of planning and organizing their team project activity. They are expected to contribute expertise from their discipline to the design of the team's projects throughout most of the design process phases of problem identification, specification development, design, production, and deployment. Seniors will also meet with the customer and mentor the freshman, sophomores and juniors. Seniors using EPCS 40100/40200 to fulfill capstone or design requirements where approved for their major may be required to satisfy additional course requirements specified by their degree program. EPCS 40100 is offered for 1 credit. The EPICS procedures manual provides information on expected relative workload for EPCS 40100 and EPCS 40200 students. May not be taken concurrently with EPCS 40200. Typically offered Summer Fall Spring.

EPCS 40200 - Senior Participation In EPICS

Credit Hours: 2.00. Continuation of EPCS courses (see EPCS 10100). Seniors are responsible for the management tasks of planning and organizing their team project activity. They are expected to contribute expertise from their discipline to the design of the team's projects throughout most of the design process phases of problem identification, specification development, design, production, and deployment. Seniors will also meet with the customer and mentor the freshman, sophomores and juniors. Seniors using EPCS 40100/40200 to fulfill capstone or design requirements where approved for their major may be required to satisfy additional course requirements specified by their degree program. EPCS 40200 is offered for 2 credits. The EPICS procedures
manual provides information on expected relative workload for EPCS 40100 and EPCS 40200 students. May not be taken concurrently with EPCS 40100. Typically offered Summer Fall Spring.

**EPCS 41100 - Senior Design Participation In EPICS**

Credit Hours: 1.00. Continuation of EPICS courses. Seniors using EPCS 41100 to fulfill capstone or design requirements where approved for their major may be required to satisfy additional course requirements specified by their degree program. EPCS 41100 is offered for 1 credit. The EPICS procedures manual provides information on expected relative workload for EPCS 41100 and EPCS 41200 students. Seniors are responsible for the management tasks of planning and organizing their team project activity. They are expected to contribute expertise from their discipline to the design of the team's projects throughout most of the design process phases of problem identification, specification development, design, production, and deployment. Seniors will also meet with the customer and mentor the first year, sophomores and juniors. May not be taken concurrently with EPCS 41200. Typically offered Fall, Spring.

**EPCS 41200 - Senior Design Participation In EPICS**

Credit Hours: 2.00. Continuation of EPICS courses. Seniors using EPCS 41200 to fulfill capstone or design requirements where approved for their major may be required to satisfy additional course requirements specified by their degree program. EPCS 41200 is offered for 2 credit. The EPICS procedures manual provides information on expected relative workload for EPCS 41100 and EPCS 41200 students. Seniors are responsible for the management tasks of planning and organizing their team project activity. They are expected to contribute expertise from their discipline to the design of the team's projects throughout most of the design process phases of problem identification, specification development, design, production, and deployment. Seniors will also meet with the customer and mentor the first year, sophomores and juniors. May not be taken concurrently with EPCS 41100. Typically offered Fall, Spring.

**EPCS 49000 - EPICS Special Topics Course**

Credit Hours: 1.00 to 3.00. Projects of special interest outside the scope and structure of the standard EPICS courses. Interested students seek a faculty advisor in their area of special interest and together prepare a brief description of the work to be undertaken. Permission of instructor required. Typically offered Summer Fall Spring.

**International Electives**

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities

≈ Also counts for UC Science Technology & Society

≥ Check myPurdue for course pre-requisites
AGEC 25000 - Economic Geography Of World Food And Resources

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

AGEC 34000 - International Economic Development

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

AGEC 45000 - International Agricultural Trade

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

ANTH 34000 - Global Perspectives On Health

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

ANTH 34100 - Culture And Personality

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

CLCS 18100 - Classical World Civilizations

Credit Hours: 3.00. Course introduces students to “Classical” civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.
CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

CLCS 38000 - Alexander The Great and Hellenistic World

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

CLCS 48000 - Potters And Society In Antiquity

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

COM 22400 - Communicating In The Global Workplace

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

COM 30300 - Intercultural Communication

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

CSR 33200 - Cross-Cultural Marketing And International Retailing

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

FNR 23000 - The World's Forests And Society
Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

**HIST 10300 - Introduction To The Medieval World**

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

**HIST 10400 - Introduction To The Modern World**

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

**HIST 10500 - Survey Of Global History**

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

**HIST 24000 - East Asia And Its Historic Tradition**

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

**HIST 24300 - South Asian History And Civilizations**

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

**HIST 32000 - The World Of Charlemagne**

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.
HIST 32900 - History Of Women In Modern Europe

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

HIST 34400 - History Of Modern Japan

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

HIST 39200 - Caribbean History And Culture

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

HIST 34000 - Modern China

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

HIST 40300 - Europe In The Reformation

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

SOC 33900 - Introduction To The Sociology Of Developing Nations
Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

PHIL 11400 - Global Moral Issues

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

PHIL 23000 - Religions Of The East

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

PHIL 23100 - Religions Of The West

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

POL 13000 - Introduction To International Relations

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.
POL 23700 - Modern Weapons And International Relations

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

POL 34800 - East Asian Politics

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

POL 40300 - Field Experience In Political Science

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

*You must be in Upper Division to take these classes

ECON 37000 - International Trade

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

MGMT 41500 - International Financial Management

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

MGMT 42210 - International Marketing

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of
international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**Note**

◊ Completion prior to admittance to upper division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

**Program Requirements**

**Fall 1st Year**

- UC Science - Credit Hours: 3.00

**MA 16010 - Applied Calculus I**

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**
Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- General Elective or AP/CR by Exam/TR - Credit Hours: 2.00

15 Credits

**Spring 1st Year**

**MA 16020 - Applied Calculus II**

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**ECON 25100 - Microeconomics**
Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

- UC Human Cultures (Humanities) - Credit Hours: 3.00
- UC Science - Credit Hours: 3.00

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

16 Credits

Fall 2nd Year

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- General Elective - Credit Hours: 3.00
- UC Science, Tech & Society - Credit Hours: 3.00
15 Credits

Spring 2nd Year

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer.

- CTL: ISH 1041 Macroeconomics
  - International Elective - Credit Hours: 3.00
  - General Elective - Credit Hours: 3.00

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer.

CCN: IPO 1802 Accounting II

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

15 Credits

Fall 3rd Year

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**
Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 35000 - Intermediate Accounting I**

Credit Hours: 3.00. Financial reporting for interested external parties. Emphasis on asset valuation, income measurement, and preparation of financial statements, and on appreciation of discretion available to preparers. Typically offered Fall Spring.

15 Credits

Spring 3rd Year

**MGMT 35100 - Intermediate Accounting II**

Credit Hours: 3.00. Continuation of Intermediate Accounting I. An examination of additional problems in financial reporting, including long-term assets, liabilities, owners' equity, income taxes, earnings per share, leases, and pensions. Typically offered Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**
Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

- Professional Elective - Credit Hours: 3.00

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

15 Credits

**Fall 4th Year**

**MGMT 50300 - Advanced Accounting**

Credit Hours: 3.00. Advanced course in financial accounting. A range of contemporary issues in financial reporting, such as business combinations, investments, consolidations, inflation, multinationals, and tax allocation are covered. Both technical proficiency and user applications are emphasized. Typically offered Fall Spring.

**MGMT 50400 - Tax Accounting**

Credit Hours: 3.00. Basic tax course designed to provide an understanding of the various federal taxes, including income, gift, estate, excise, federal insurance contribution, self-employment, and unemployment taxes. Typically offered Fall Spring.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time
manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

- Professional Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

Spring 4th Year

MGMT 50500 - Management Accounting II

Credit Hours: 3.00. The focus of the course is managerial decision making and the economic role of information. Topics covered include decentralized financial performance evaluation, cost analysis, and financial planning and control systems. Typically offered Fall.

MGMT 50600 - Auditing

Credit Hours: 3.00. A study of the concepts and procedures of auditing, which is the systematic process of objectively obtaining and evaluating evidence regarding assertions about economic actions and events. Primary emphasis is on audits conducted by independent certified public accountants, but topics covered apply to internal auditing as well. Typically offered Spring.

- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

120 Total Credits

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

The knowledge source for specific degree requirements and completion is myPurduePlan.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:
Critical Course

The course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Economics Honors, BS

About the Program

Welcome to Purdue University's Department of Economics. The Department, located in the Krannert School of Management, has a long tradition of excellence in research and teaching. Economics faculty members are leaders in their respective fields. The Economics Department offers both undergraduate and graduate degree programs. For undergraduates students, the Department offers two Baccalaureate degrees, a Bachelor of Science (BS) degree in Economics through the Management School and a Bachelor of Arts (BA) degree through the College of Liberal Arts. We also offer an Economics Honors Program and a Minor in Economics. For more information on these undergraduate programs, please follow the link on the menu to the left.

Degree Requirements and Supplemental Information

The full Program Requirements for Economics Honors include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: ECON-BS
Code: ECNH
Credit Hours: 120
Graduation Index: 3.50 minimum
Major Index: 3.50 minimum

Economics Admissions Index Core (EAI)

- To be admitted to Upper Division Economics, students must complete all EAI courses with an EAI GPA of 2.75 or higher, must have a cumulative GPA of 2.50 or higher, must have a C- or higher in all required EAI and ECON courses, and must not be on academic probation.
- Complete MGMT 29500 with a C- or higher. Grade calculated in overall GPA but not for EAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- MA 16100 may be replaced by MA 16010 and MA 16020. A C- or higher in both MA 16010 and MA 16020 satisfies the prerequisite for MA 16200.
- A maximum of three EAI courses may be retaken one time each for a grade.
• EAI and School of Management (Economics) Foundations courses with grades of "F" cannot be replaced by a transfer course.

Required Major Upper Division Courses (24 credits)

**ECON 34000 - Intermediate Microeconomic Theory**

Credit Hours: 3.00. Topics from consumer behavior and demand, decisions under uncertainty, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Typically offered Fall Spring.

**ECON 51100 - Intermediate Economics I**

Credit Hours: 3.00. Consumer behavior and demand, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Not open to students with credit in ECON 34000. Typically offered Fall Summer.

**ECON 35200 - Intermediate Macroeconomics**

Credit Hours: 3.00. Continuation of ECON 25200. A more rigorous, general equilibrium treatment of macroeconomic theory with emphasis on the components of the model: determinants of consumption, investment, net exports and foreign exchange rates, the level of unemployment, inflation and the long-run rate of economic growth. Typically offered Fall Spring.

**ECON 51200 - Intermediate Economics II**

Credit Hours: 3.00. Course content includes money and banking, national income and aggregative economics; the analysis of the determination of national income, employment, the price level, and the balance of payments. Consideration of both theory and economic policy. Not open to students with credit in ECON 35200. Typically offered Spring.

**ECON 36000 - Econometrics**

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate casual effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

**ECON 56200 - Econometrics I**
Credit Hours: 3.00. This masters-level course in econometrics covers the tools that will enable students to conduct empirical analysis using economics data. The course examines the statistical techniques used in testing economic theories, estimating casual effects, and making predictions. Emphasis is placed on estimating a single equation (e.g., a demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using STATA, a statistical software package. Permission of department required. Typically offered Fall.

**ECON 49900 - Senior Honors Thesis**

Credit Hours: 3.00. Execution by economics honors students of a senior honors thesis under the direction and supervision of the faculty. In addition to a paper, completion of the research project may involve the presentation of the findings in a seminar or workshop setting. Permission of Instructor required. Typically offered Spring.

- Upper Division ECON Elective. ECON 41900 - Managerial Economics may not be used to fulfill this requirement. - Credit Hours: 3.00
- Upper Division ECON Elective. ECON 41900 - Managerial Economics may not be used to fulfill this requirement. - Credit Hours: 3.00
- Upper Division ECON Elective. ECON 41900 - Managerial Economics may not be used to fulfill this requirement. - Credit Hours: 3.00
- Upper Division ECON Elective. ECON 41900 - Managerial Economics may not be used to fulfill this requirement. - Credit Hours: 3.00

**Major Selectives (15-26 credits)**

Complete the requirements for ONE minor

- Minor in Biology - Credit Hours: 18.00
- Minor in Chemistry - Credit Hours: 16.00
- Minor in Computer Science - Credit Hours: 16.00
- Minor in Mathematics - Credit Hours: 24.00
- Minor in Physics - Credit Hours: 26.00
- Minor in Statistics - Credit Hours: 15.00

**Other Departmental /Program Course Requirements (53-55 credits)**

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

**CS 23500 - Introduction To Organizational Computing**
Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

**MA 35100 - Elementary Linear Algebra**

Credit Hours: 3.00. Systems of linear equations, finite dimensional vector spaces, matrices, determinants, eigenvalues and eigenvector applications to analytical geometry. Not open to students with credit in MA 26500. Typically offered Fall Spring.

**MA 51100 - Linear Algebra With Applications**

Credit Hours: 3.00. Real and complex vector spaces; linear transformations; Gram-Schmidt process and projections; least squares; QR and LU factorization; diagonalization, real and complex spectral theorem; Schur triangular form; Jordan canonical form; quadratic forms. Typically offered Summer.

**STAT 35000 - Introduction To Statistics**

Credit Hours: 3.00. A data-oriented introduction to the fundamental concepts and methods of applied statistics. Exploratory analysis of data. Sample design and experimental design. Probability distributions and simulation. Sampling distributions. The reasoning of statistical inference. Confidence intervals and tests for one and two samples. Inference for contingency tables, regression, and correlation. Introduction to regression with several explanatory variables. Essential use is made of statistical software throughout. Intended primarily for students majoring in the mathematical sciences. For statistics majors and minors, credit should be allowed in no more than one of STAT 30100, 35000, 50100, and in no more than one of STAT 50300 and STAT 51100. Prerequisite: two semesters of college calculus. Typically offered Fall Spring.

**STAT 51100 - Statistical Methods**
Credit Hours: 3.00. Descriptive statistics; elementary probability; sampling distributions; inference, testing hypotheses, and estimation; normal, binomial, Poisson, hypergeometric distributions; one-way analysis of variance; contingency tables; regression. For statistics majors and minors, credit should be allowed in no more than one of STAT 30100, STAT 35000, STAT 50100, and in no more than one of STAT 50300 and STAT 51100. Prerequisite: Two semesters of college calculus. Typically offered Fall Spring.

- Foreign language course (20100, 20200, 30100, 30200, 40100, and 40200 not in your native language or English, *UC* satisfies Human Cultures Humanities core) - Credit Hours: 3.00
- Foreign language course (20100, 20200, 30100, 30200, 40100, and 40200 not in your native language or English) - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science, Technology & Society - Credit Hours: 3.00

Economics Admissions Index (EAI) Core*

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.
ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100 , or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

Electives (15-28 credits)

The number of general electives will vary for each student and can include AP credit, transfer credit, and/or Credit by Exam.

University Core Requirements

- Human Cultures Humanities
• Human Cultures Behavioral/Social Science
• Information Literacy
• Science #1
• Science #2
• Science, Technology & Society Selective
• Written Communication
• Oral Communication
• Quantitative Reasoning

General Information

• MGMT, OBHR and ECON courses numbered 30000 or higher, except for MGMT 30100, can only be taken after being admitted to Upper Division.
• Transfer credit for upper level MGMT, OBHR and ECON (https://selfservice.mypurdue.purdue.edu/prod/bzwtxcrd.p_select_info) courses will only be considered if taken at a 4 year AACSB accredited school, (www.aacsb.edu).
• Courses taken on approved Krannert study abroad programs may be used to satisfy degree requirements. Students participating in a Purdue approved study abroad program are registered as full-time Purdue students during their semester abroad. Schedule an appointment with your advisor to discuss study abroad opportunities.
• Minors outside of the School of Management are also available.
• Information on summer courses is available at www.purdue.edu/thinksummer
• Refer to www.MyPurduePlan.Purdue.edu for degree requirements.
• Students interested in graduate work in economics or a related field should take additional mathematics and statistics courses and consider completing a minor/major in either or both. These course are highly recommended: MA 30100, MA 34100, MA 44000, MA 36600, STAT 41600/STAT 51600, and STAT 42000/STAT 52000. Please see http://www.krannert.purdue.edu/academics/economics/home.php
• Once you have completed ECON 25100 & ECON 25200 you should quickly complete the three core ECON courses (ECON 34000/ECON 51100, ECON 35200/ECON 51200, and ECON 36000/ECON 56200). After completing these courses, consider applying for an undergraduate teaching assistantship. Working as an undergraduate TA sometimes leads to research assistant opportunities.
• If you maintain a high GPA into your junior year, consider applying for prestigious scholarships including: Fulbright Fellowship, Jacob K. Javits Fellowship, National Science Foundation Fellowship, Marshall Scholarship, Rhodes Scholarship, Harry S. Truman Scholarship, Beinecke Scholarship, British Chevening Scholarship, Ford Foundation Fellowship, and Gates Cambridge Scholarship.

Program Requirements

Fall 1st Year

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.
MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

- Foreign Language - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 1.00

15-16 Credits

Spring 1st Year

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.
ECON 25200 - Macroeconomics
Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

COM 11400 - Fundamentals Of Speech Communication
Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

MA 16200 - Plane Analytic Geometry And Calculus II
Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II
Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

- Foreign Language - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 1.00

15-16 Credits

Fall 2nd Year

MA 26100 - Multivariate Calculus
Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100 . Typically offered Fall Spring Summer.
ECON 34000 - Intermediate Microeconomic Theory

Credit Hours: 3.00. Topics from consumer behavior and demand, decisions under uncertainty, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Typically offered Fall Spring.

STAT 35000 - Introduction To Statistics

Credit Hours: 3.00. A data-oriented introduction to the fundamental concepts and methods of applied statistics. Exploratory analysis of data. Sample design and experimental design. Probability distributions and simulation. The reasoning of statistical inference. Confidence intervals and tests for one and two samples. Inference for contingency tables, regression, and correlation. Introduction to regression with several explanatory variables. Essential use is made of statistical software throughout. Intended primarily for students majoring in the mathematical sciences. For statistics majors and minors, credit should be allowed in no more than one of STAT 30100, 35000, 50100, and in no more than one of STAT 50300 and STAT 51100. Prerequisite: two semesters of college calculus. Typically offered Fall Spring.

STAT 51100 - Statistical Methods

Credit Hours: 3.00. Descriptive statistics; elementary probability; sampling distributions; inference, testing hypotheses, and estimation; normal, binomial, Poisson, hypergeometric distributions; one-way analysis of variance; contingency tables; regression. For statistics majors and minors, credit should be allowed in no more than one of STAT 30100, 35000, 50100, and in no more than one of STAT 50300 and STAT 51100. Prerequisite: Two semesters of college calculus. Typically offered Fall Spring.

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.
  - General Elective or Minor - Credit Hours: 2.00

15 Credits

Spring 2nd Year

MA 26500 - Linear Algebra

Credit Hours: 3.00. Introduction to linear algebra. Systems of linear equations, matrix algebra, vector spaces, determinants,
eigenvalues and eigenvectors, diagonalization of matrices, applications. Not open to students with credit in MA 26200, 27200, 35000 or MA 35100. Typically offered Fall Spring Summer.

MA 35100 - Elementary Linear Algebra

Credit Hours: 3.00. Systems of linear equations, finite dimensional vector spaces, matrices, determinants, eigenvalues and eigenvector applications to analytical geometry. Not open to students with credit in MA 26500. Typically offered Fall Spring.

MA 51100 - Linear Algebra With Applications

Credit Hours: 3.00. Real and complex vector spaces; linear transformations; Gram-Schmidt process and projections; least squares; QR and LU factorization; diagonalization, real and complex spectral theorem; Schur triangular form; Jordan canonical form; quadratic forms. Typically offered Summer.

ECON 35200 - Intermediate Macroeconomics

Credit Hours: 3.00. Continuation of ECON 25200. A more rigorous, general equilibrium treatment of macroeconomic theory with emphasis on the components of the model: determinants of consumption, investment, net exports and foreign exchange rates, the level of unemployment, inflation and the long-run rate of economic growth. Typically offered Fall Spring.

ECON 36000 - Econometrics

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate causal effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

- UC Science - Credit Hours: 3.00
- UC Science - Credit Hours: 3.00

15 Credits

Fall 3rd Year

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context,
project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

- ECON Upper Division - Credit Hours: 3.00
- ECON Upper Division - Credit Hours: 3.00
- UC Science Tech Society - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00

15 Credits

Fall 4th Year

ECON 49900 - Senior Honors Thesis

Credit Hours: 3.00. Execution by economics honors students of a senior honors thesis under the direction and supervision of the faculty. In addition to a paper, completion of the research project may involve the presentation of the findings in a seminar or workshop setting. Permission of Instructor required. Typically offered Spring.

- ECON Upper Division Elective - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00

15 Credits

Spring 4th Year

- ECON Upper Division Elective - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
15 Credits

120 Total Credits

Note

◊ Completion prior to admittance to Upper Division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy EAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

The knowledge source for specific degree requirements and completion is myPurduePlan.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ◊ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Economics, BS

About the Program

Welcome to Purdue University's Department of Economics. The Department, located in the Krannert School of Management, has a long tradition of excellence in research and teaching. Economics faculty members are leaders in their respective fields. The Economics Department offers both undergraduate and graduate degree programs. For undergraduates students, the Department offers two Baccalaureate degrees, a Bachelor of Science (BS) degree in Economics through the Management School and a Bachelor of Arts (BA) degree through the College of Liberal Arts. We also offer an Economics Honors Program and a Minor in Economics.

Degree Requirements and Supplemental Information
The full Program Requirements for Economics, BS include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: ECON-BS  
Code-ECON  
Credit Hours: 120  
Graduation Index: 2.00 minimum  
Major Index: 2.00 minimum

**Economics Admissions Index Core (EAI)**

- To be admitted into Upper Division Economics, students must complete all EAI courses with an EAI GPA of 2.75 or higher, must have a C- or higher in all EAI and ECON courses, and must not be on academic probation.
- Complete MGMT 29500 with a C- or higher. Grade calculated in overall GPA but not for EAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Previous enrollments in MA 16100/MA 16500 do not count in the EAI GPA if replaced with MA 16010.
- Previous enrollments in MA 16200/MA 16600 do not count in the EAI GPA if replaced with MA 16020.
- A maximum of three EAI courses may be retaken one time each for a grade.
- EAI and School of Management (Economics) Foundations courses with grades of “F” cannot be replaced by a transfer.

**Required Major Upper Division Courses (24 credits)**

No more than 3 Upper Division courses per semester unless at least a 2.75 overall GPA

**ECON 34000 - Intermediate Microeconomic Theory**

Credit Hours: 3.00. Topics from consumer behavior and demand, decisions under uncertainty, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Typically offered Fall Spring.

**ECON 51100 - Intermediate Economics I**

Credit Hours: 3.00. Consumer behavior and demand, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Not open to students with credit in ECON 34000. Typically offered Fall Summer.

**ECON 35200 - Intermediate Macroeconomics**
Credit Hours: 3.00. Continuation of ECON 25200. A more rigorous, general equilibrium treatment of macroeconomic theory with emphasis on the components of the model: determinants of consumption, investment, net exports and foreign exchange rates, the level of unemployment, inflation and the long-run rate of economic growth. Typically offered Fall Spring.

**ECON 51200 - Intermediate Economics II**

Credit Hours: 3.00. Course content includes money and banking, national income and aggregative economics; the analysis of the determination of national income, employment, the price level, and the balance of payments. Consideration of both theory and economic policy. Not open to students with credit in ECON 35200. Typically offered Spring.

**ECON 36000 - Econometrics**

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate casual effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

**ECON 56200 - Econometrics I**

Credit Hours: 3.00. This masters-level course in econometrics covers the tools that will enable students to conduct empirical analysis using economics data. The course examines the statistical techniques used in testing economic theories, estimating casual effects, and making predictions. Emphasis is placed on estimating a single equation (e.g., a demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using STATA, a statistical software package. Permission of department required. Typically offered Fall.

- Upper Division ECON Elective (ECON 41900 Managerial Economics may not be used to fulfill this requirement) - Credit Hours: 3.00
- Upper Division ECON Elective (ECON 41900 Managerial Economics may not be used to fulfill this requirement) - Credit Hours: 3.00
- Upper Division ECON Elective (ECON 41900 Managerial Economics may not be used to fulfill this requirement) - Credit Hours: 3.00
- Upper Division ECON Elective (ECON 41900 Managerial Economics may not be used to fulfill this requirement) - Credit Hours: 3.00
- Upper Division ECON Elective (ECON 41900 Managerial Economics may not be used to fulfill this requirement) - Credit Hours: 3.00
- Upper Division ECON Elective (ECON 41900 Managerial Economics may not be used to fulfill this requirement) - Credit Hours: 3.00

**Major Selectives* (12-26 credits)**

Complete the requirements for one of the following Minors, Concentrations, or Entrepreneurship Certificate

Minor in Biology - Credit Hours: 18.00

Minor in Chemistry - Credit Hours: 16.00
Minor in Computer Science - Credit Hours: 16.00
Minor in Mathematics - Credit Hours: 24.00
Minor in Physics - Credit Hours: 26.00
Minor in Statistics - Credit Hours: 15.00
Concentration in Accounting - Credit Hours: 12.00
Concentration in Analytical Consulting - Credit Hours: 12.00
Concentration in Finance - Credit Hours: 12.00
Concentration in Global Leadership and Human Capital - Credit Hours: 12.00
Concentration in Marketing - Credit Hours: 12.00
Concentration in Management Information Systems - Credit Hours: 12.00
Concentration in Operations and Supply Chain Management - Credit Hours: 12.00
Concentration in Technology Innovation and Entrepreneurship - Credit Hours: 12.00
Concentration in International Business - Credit Hours: 12.00
Entrepreneurship Certificate - Credit Hours: 15.00

Other Departmental /Program Course Requirements (47-54 credits)

MGMT 29500 - Professional Career Management
Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

CS 23500 - Introduction To Organizational Computing
Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

ENGL 42000 - Business Writing
Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.
STAT 35000 - Introduction To Statistics

Credit Hours: 3.00. A data-oriented introduction to the fundamental concepts and methods of applied statistics. Exploratory analysis of data. Sample design and experimental design. Probability distributions and simulation. Sampling distributions. The reasoning of statistical inference. Confidence intervals and tests for one and two samples. Inference for contingency tables, regression, and correlation. Introduction to regression with several explanatory variables. Essential use is made of statistical software throughout. Intended primarily for students majoring in the mathematical sciences. For statistics majors and minors, credit should be allowed in no more than one of STAT 30100, 35000, 50100, and in no more than one of STAT 50300 and STAT 51100. Prerequisite: two semesters of college calculus. Typically offered Fall Spring.

STAT 51100 - Statistical Methods

Credit Hours: 3.00. Descriptive statistics; elementary probability; sampling distributions; inference, testing hypotheses, and estimation; normal, binomial, Poisson, hypergeometric distributions; one-way analysis of variance; contingency tables; regression. For statistics majors and minors, credit should be allowed in no more than one of STAT 30100, STAT 35000, STAT 50100, and in no more than one of STAT 50300 and STAT 51100. Prerequisite: Two semesters of college calculus. Typically offered Fall Spring.

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

• International Elective - Credit Hours: 3.00
• International Elective - Credit Hours: 3.00
• University Core: Human Cultures (Humanities) - Credit Hours: 3.00
• University Core: Science - Credit Hours: 3.00
• University Core: Science - Credit Hours: 3.00
• University Core: Science, Technology & Society - Credit Hours: 3.00

Economics Admissions Index (EAI) Core*

COM 11400 - Fundamentals Of Speech Communication
Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**MA 16010 - Applied Calculus I**

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or
departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

**MA 16020 - Applied Calculus II**

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

**MA 16200 - Plane Analytic Geometry And Calculus II**

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

**MA 16600 - Analytic Geometry And Calculus II**

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**Electives (16-37 credits)**

The number of general electives will vary for each student and can include AP credit, transfer credit, and/or Credit by Exam.

**University Core Requirements**

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
• Science, Technology & Society Selective
• Written Communication
• Oral Communication
• Quantitative Reasoning

General Information

• MGMT, OBHR and ECON courses numbered 30000 or higher can only be taken after being admitted to Upper Division.
• Transfer credit for upper level MGMT, OBHR and ECON (https://selfservice.mypurdue.purdue.edu/produ/bzwtxcrd.p_select_info) courses will only be considered if taken at a 4 year AACSB accredited school, (www.aacsb.edu).
• Courses taken on approved Krannert study abroad programs may be used to satisfy degree requirements. Students participating in a Purdue approved study abroad program are registered as full-time Purdue students during their semester abroad. Schedule an appointment with your advisor to discuss study abroad opportunities. Minors outside of the School of Management are also available.
• MA 16010 & MA 16020 are not sufficient preparation for minors in Chemistry, Computer Science, Mathematics, Physics, or Statistics.
• Students who have not completed MA 16100 but have a C- or better in both MA 16010 & MA 16020 may take MA 16200.
• Information on summer courses is available at www.purdue.edu/thinksummer.
• Refer to www.MyPurduePlan.purdue.edu for degree requirements.
• Students interested in pursuing a graduate degree in economics or related fields should consider the Economics Honors degree as it provides a better preparation: https://www.krannert.purdue.edu/academics/economics/Undergraduate/after-graduation/prep-grad-school.asp

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities
≈ Also counts for UC Science Technology & Society
≥ Check myPurdue for course pre-requisites

AGEC 25000 - Economic Geography Of World Food And Resources

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

AGEC 34000 - International Economic Development
Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**

Credit Hours: 3.00. Course introduces students to "Classical" civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

**CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity**

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

**CLCS 38000 - Alexander The Great and Hellenistic World**
Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

**CLCS 48000 - Potters And Society In Antiquity**

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

**COM 22400 - Communicating In The Global Workplace**

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

**COM 30300 - Intercultural Communication**

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

**FNR 23000 - The World's Forests And Society**

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

**HIST 10300 - Introduction To The Medieval World**

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.
HIST 10400 - Introduction To The Modern World

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

HIST 10500 - Survey Of Global History

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

HIST 32900 - History Of Women In Modern Europe

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan
Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

**HIST 34400 - History Of Modern Japan**

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

**HIST 39200 - Caribbean History And Culture**

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

**HIST 34000 - Modern China**

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

**SOC 33900 - Introduction To The Sociology Of Developing Nations**

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

**PHIL 11400 - Global Moral Issues**

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.
PHIL 23000 - Religions Of The East

Credit Hours: 3.00. A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

PHIL 23100 - Religions Of The West

Credit Hours: 3.00. A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

POL 13000 - Introduction To International Relations

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

POL 23700 - Modern Weapons And International Relations

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

POL 34800 - East Asian Politics

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.
POL 40300 - Field Experience In Political Science

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

ECON 37000 - International Trade

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

MGMT 41500 - International Financial Management

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

MGMT 42210 - International Marketing

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

MGMT 45900 - International Management

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

Program Requirements
Fall 1st Year

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

- UC Science - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 2.00

MA 16010 - Applied Calculus I

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I
Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

15-18 Credits

Spring 1st Year

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

MA 16020 - Applied Calculus II
Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring.

CTL:IMA 1603 Calculus - Long II
- General Elective or Minor - Credit Hours: 2.00

15-17 Credits

Fall 2nd Year

STAT 35000 - Introduction To Statistics

Credit Hours: 3.00. A data-oriented introduction to the fundamental concepts and methods of applied statistics. Exploratory analysis of data. Sample design and experimental design. Probability distributions and simulation. Sampling distributions. The reasoning of statistical inference. Confidence intervals and tests for one and two samples. Inference for contingency tables, regression, and correlation. Introduction to regression with several explanatory variables. Essential use is made of statistical software throughout. Intended primarily for students majoring in the mathematical sciences. For statistics majors and minors, credit should be allowed in no more than one of STAT 30100, 35000, 50100, and in no more than one of STAT 50300 and STAT 51100. Prerequisite: two semesters of college calculus. Typically offered Fall Spring.

STAT 51100 - Statistical Methods

Credit Hours: 3.00. Descriptive statistics; elementary probability; sampling distributions; inference, testing hypotheses, and estimation; normal, binomial, Poisson, hypergeometric distributions; one-way analysis of variance; contingency tables; regression. For statistics majors and minors, credit should be allowed in no more than one of STAT 30100, 35000, STAT 50100, and in no more than one of STAT 50300 and STAT 51100. Prerequisite: Two semesters of college calculus. Typically offered Fall Spring.
ECON 34000 - Intermediate Microeconomic Theory

Credit Hours: 3.00. Topics from consumer behavior and demand, decisions under uncertainty, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Typically offered Fall Spring.

- UC Science, Tech & Society - Credit Hours: 3.00
- UC Humanities - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00

15 Credits

Spring 2nd Year

ECON 36000 - Econometrics

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate casual effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

ECON 35200 - Intermediate Macroeconomics

Credit Hours: 3.00. Continuation of ECON 25200. A more rigorous, general equilibrium treatment of macroeconomic theory with emphasis on the components of the model: determinants of consumption, investment, net exports and foreign exchange rates, the level of unemployment, inflation and the long-run rate of economic growth. Typically offered Fall Spring.

- International Elective - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00

15 Credits

Fall 3rd Year

ENGL 42000 - Business Writing
Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

- ECON Elective - Credit Hours: 3.00
- ECON Elective - Credit Hours: 3.00
- UC Science - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00

15 Credits

Fall 4th Year

- ECON Elective - Credit Hours: 3.00
- ECON Elective - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00

15 Credits

Spring 4th Year

- ECON Elective - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00
- General Elective or Minor - Credit Hours: 3.00

15 Credits
Total Credits 120

Note

◊ Completion prior to admittance to upper division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy EAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

The knowledge source for specific degree requirements and completion is myPurduePlan.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ◊ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Finance, BS

About the Program

Finance is the study of creating and managing wealth. It is about corporations, individuals, governments and not for profit entities and how these entities manage their money. You will discover what "the time value of money" means, how to manage corporate cash flow and how to effectively allocate resources.

You will study investment management, financial analytic tools and corporate forecasting. After taking accounting and economics, you'll begin to analyze money in different ways to answer questions like: How do multinational corporations account for currency exchanges? When you are buying another company, how do you decide how much it is worth? What is involved when companies have their Initial Public Offering?

A range of opportunities are available to start your career in Finance. Graduates can start out as financial analysts in large corporations looking at the bottom line and predicting profits. Other opportunities exist in a fast-paced financial leadership development programs or investment banking.
Degree Requirements and Supplemental Information

The full Program Requirements for 2016-17 Finance include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be printer-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BS
Code: FINC
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum

Required Major Upper Division Courses (30 Credits)

OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given
business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**ECON 38000 - Money And Banking**

Credit Hours: 3.00. The course analyzes the economics of money, monetary systems, investments, and financial intermediaries in modern industrial economies. Topics considered include the origin of money and the banking industry, financial asset markets, the role of central banks, and the effects of various monetary policies. The theory will be presented side by side with current economic and financial news, and the students will learn how to track financial and economic data via The Wall Street Journal. Typically offered Fall Spring.

Select 1 (one)
MGMT 30600 - Management Science

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

MGMT 47200 - Advanced Spreadsheet Modeling And Simulation

Credit Hours: 3.00. This course covers up-to-date and practical spreadsheet modeling tools that can be applied to a wide variety of business problems from finance, marketing, and operations. The topical coverage consists of the following five modules: (1) Excel functions, skills and financial models; (2) deterministic and stochastic optimization techniques to determine the best managerial actions under internally-and/or externally-imposed constraints; (3) probability distribution fitting techniques to find the most likely description of the uncertainty in future business; (4) simulation modeling techniques to discover and analyze the risk and uncertainties in business environment and processes; (5) application of spreadsheet modeling and simulation techniques in forecasting asset dynamics (stock price) and pricing options and real investment opportunities. This course provides hands-on experience of computer application using Microsoft Excel and the spreadsheet add-ins @RISK, RISKOptimizer, SimQuick, etc. Typically offered Spring.

ECON 36000 - Econometrics

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate casual effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

Major Selectives (15 credits)

Choose 5 of the following courses

MGMT 41100 - Investment Management

Credit Hours: 3.00. Examination of investment alternatives relevant to the individual and/or family-unit investor. Operations of the markets in which securities are traded. Theory and application of security valuation, portfolio construction, capital markets, and performance evaluation. Particular attention given to fixed income securities, common stocks, options, investment companies, and other popular investment alternatives. Typically offered Fall Spring.

MGMT 41200 - Financial Institutions And Markets

Credit Hours: 3.00. Introduction to financial markets and management of financial institutions. Emphasis on determinants of
interest rates, and measurement and management of financial risk. Concentration on management of depository firms such as banks and savings and loans. Typically offered Fall Spring Summer.

**MGMT 41300 - Corporate Finance**

Credit Hours: 3.00. The course provides the theoretical and problem-solving tools needed in entry-level financial analysis positions in a corporate, commercial lending, or investment banking setting. Topics include corporate valuation, cash flow forecasting, project evaluation, capital structure, dividend policy, capital acquisition, and mergers/acquisition. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 41601 - Corporate Mergers And Acquisitions**

Credit Hours: 3.00. The financial analysis of corporate acquisitions, mergers, and reorganizations including asset acquisitions, joint ventures, spin-offs, sell-offs, equity carve-outs, bankruptcy proceedings and reorganizations, and corporate governance. The course uses a combination of lectures, readings, and case analysis. Typically offered Fall Spring Summer.

**MGMT 49000 - Problems In Industrial Management**

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.

**Other Departmental/Program Course Requirements (56 credits)**

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

**COM 11400 - Fundamentals Of Speech Communication**
Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality,
intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- University Core: Human Cultures (Humanities) - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science, Technology & Society - Credit Hours: 3.00

**Management Admissions Index (MAI) Core***

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**MA 16010 - Applied Calculus I**

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation,
maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

**MA 16020 - Applied Calculus II**

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

**Electives (19 credits)**

The number of general electives will vary for each student and can include AP credit, transfer credit, and/or Credit by Exam.

**Management Admissions Index (MAI) Core Requirements**

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 3.00 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for upper division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/mgmt/mgmt-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- School of Management, MAI, and concentration courses with grades of "F" cannot be replaced by a transfer course.
- Previous enrollments in MA 16100, MA 16200, MA 16500, MA 16600 do not count against the retake policy for the MAI.

**University Core Requirements**

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
• Science, Technology, and Society
• Written Communication
• Oral Communication
• Quantitative Reasoning
• For a complete listing of course selectives, visit the Provost's Website or click here.

General Information

• MGMT, OBHR and ECON courses numbered 30000 or higher can only be taken after being admitted to Upper Division.
• Transfer credit for upper level MGMT, OBHR and ECON (https://selfservice.mypurdue.purdue.edu/prod/bzwtxcrd.p_select_info) courses will only be considered if taken at a 4 year AACSB accredited school, (www.aacsb.edu).
• Courses taken on approved Krannert study abroad programs may be used to satisfy degree requirements. Students participating in a Purdue approved study abroad program are registered as full-time Purdue students during their semester abroad. Schedule an appointment with your advisor to discuss study abroad opportunities.
• Minors outside of the School of Management are also available.
• Information on summer courses is available at www.purdue.edu/thinksomer.
• Refer to myPurduePlan at www.mypurdue.purdue.edu for degree requirements

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities

≈ Also counts for UC Science Technology & Society

≥ Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the
greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**

Credit Hours: 3.00. Course introduces students to “Classical” civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

**CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity**

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

**CLCS 38000 - Alexander The Great and Hellenistic World**

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.
CLCS 48000 - Potters And Society In Antiquity

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

COM 22400 - Communicating In The Global Workplace

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

COM 30300 - Intercultural Communication

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

CSR 33200 - Cross-Cultural Marketing And International Retailing

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

FNR 23000 - The World's Forests And Society

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

HIST 10300 - Introduction To The Medieval World

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

HIST 10400 - Introduction To The Modern World

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and
the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

**HIST 10500 - Survey Of Global History**

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

**HIST 24000 - East Asia And Its Historic Tradition**

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

**HIST 24300 - South Asian History And Civilizations**

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

**HIST 32000 - The World Of Charlemagne**

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

**HIST 32900 - History Of Women In Modern Europe**

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

**HIST 34300 - Traditional Japan**

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.
**HIST 34400 - History Of Modern Japan**

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

**HIST 39200 - Caribbean History And Culture**

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

**HIST 34000 - Modern China**

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

**SOC 33900 - Introduction To The Sociology Of Developing Nations**

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

**PHIL 11400 - Global Moral Issues**

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

**PHIL 23000 - Religions Of The East**
PHIL 23100 - Religions Of The West

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

POL 13000 - Introduction To International Relations

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

POL 23700 - Modern Weapons And International Relations

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

POL 34800 - East Asian Politics

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

POL 40300 - Field Experience In Political Science
Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

ECON 37000 - International Trade

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

MGMT 41500 - International Financial Management

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

MGMT 42210 - International Marketing

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

MGMT 45900 - International Management

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

Program Requirements

Fall 1st Year
MA 16010 - Applied Calculus I

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

UC Science - Credit Hours: 3.00
General Elective or AP/CR by Exam or TR Credit - Credit Hours: 2.00

15 Credits

Spring 1st Year
MA 16020 - Applied Calculus II

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

• UC Human Cultures (Humanities) - Credit Hours: 3.00
• UC Science - Credit Hours: 3.00

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

16 Credits

Fall 2nd Year

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I
STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- General Elective - Credit Hours: 3.00
- UC Science, Tech & Society - Credit Hours: 3.00

15 Credits

Spring 2nd Year

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

- General Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.
15 Credits

Fall 3rd Year

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.
15 Credits

Spring 3rd Year

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**MGMT 47200 - Advanced Spreadsheet Modeling And Simulation**

Credit Hours: 3.00. This course covers up-to-date and practical spreadsheet modeling tools that can be applied to a wide variety of business problems from finance, marketing, and operations. The topical coverage consists of the following five modules: (1) Excel functions, skills and financial models; (2) deterministic and stochastic optimization techniques to determine the best managerial actions under internally-and/or externally-imposed constraints; (3) probability distribution fitting techniques to find the most likely description of the uncertainty in future business; (4) simulation modeling techniques to discover and analyze the risk and uncertainties in business environment and processes; (5) application of spreadsheet modeling and simulation techniques in forecasting asset dynamics (stock price) and pricing options and real investment opportunities. This course provides hands-on experience of computer application using Microsoft Excel and the spreadsheet add-ins @RISK, RISKOptimizer, SimQuick, etc. Typically offered Spring.

**ECON 36000 - Econometrics**

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate casual effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 45100 - Strategic Management**
Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

- International Elective - Credit Hours: 3.00
- Required Finance Course - Credit Hours: 3.00

15 Credits

Fall 4th Year

**ECON 38000 - Money And Banking**

Credit Hours: 3.00. The course analyzes the economics of money, monetary systems, investments, and financial intermediaries in modern industrial economies. Topics considered include the origin of money and the banking industry, financial asset markets, the role of central banks, and the effects of various monetary policies. The theory will be presented side by side with current economic and financial news, and the students will learn how to track financial and economic data via The Wall Street Journal. Typically offered Fall Spring.

- Required Finance Course - Credit Hours: 3.00
- Required Finance Course - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

14 Credits

Spring 4th Year

- Required Finance Course - Credit Hours: 1.00
- Required Finance Course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits
120 Total Credits

Note

◊ Completion prior to admittance to upper division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

The knowledge source for specific degree requirements and completion is myPurduePlan.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ◊ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Industrial Management/Analytical Consulting, BSIM

About the Program

Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.

Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.
Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).

Industrial Management Website

Degree Requirements and Supplemental Information

The full Program Requirements for Industrial Management-Analytical Consulting include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM
Code: IMAC
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum

Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for upper division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp
- MAI courses, or their equivalents, may only be enrolled in two times for a grade.
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- Students are responsible for consulting their advisor about re-take options available to them.
- Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

Required Major Upper Division Courses (33 credits)

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict.
management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.
MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

ECON 41900 - Managerial Economics

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

Major Selectives (15 credits)

Complete 3 of the following courses (9 credits)

MGMT 40500 - Six Sigma And Quality Management

Credit Hours: 3.00. The course is an undergraduate elective offered as part of the Center for Manufacturing Management
Enterprises (CMME) quality initiatives. Provides an overview of various tools and methods for total quality management. Typically offered Fall Spring.

**MGMT 47200 - Advanced Spreadsheet Modeling And Simulation**

Credit Hours: 3.00. This course covers up-to-date and practical spreadsheet modeling tools that can be applied to a wide variety of business problems from finance, marketing, and operations. The topical coverage consists of the following five modules: (1) Excel functions, skills and financial models; (2) deterministic and stochastic optimization techniques to determine the best managerial actions under internally- and/or externally-imposed constraints; (3) probability distribution fitting techniques to find the most likely description of the uncertainty in future business; (4) simulation modeling techniques to discover and analyze the risk and uncertainties in business environment and processes; (5) application of spreadsheet modeling and simulation techniques in forecasting asset dynamics (stock price) and pricing options and real investment opportunities. This course provides hands-on experience of computer application using Microsoft Excel and the spreadsheet add-ins @RISK, RISKOptimizer, SimQuick, etc. Typically offered Spring.

**MGMT 49000 - Problems In Industrial Management**

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.

- MGMT 49000 - Problems In Industrial Management - Predictive Analytics

**MGMT 54400 - Database Management Systems**

Credit Hours: 3.00. Covers the theory and practice of database design and usage. Students will learn the importance of data modeling concepts and how to use these effectively and how to plan and design a database, including issues such as data security and control. The following course is recommended: MGMT 29000 Programming for Business Applications or CS 15900 or CS 17700 or CNIT 17500, all with a C- or higher. Typically offered Fall Spring.

**ECON 36000 - Econometrics**

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate causal effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

Complete 2 of the following courses (6 credits)

**MGMT 42500 - Marketing Research**
Credit Hours: 3.00. The purpose of this course is to develop skills in the planning and execution of market research studies designed to acquire useful information for marketing decisions. It aims to familiarize students with techniques of research design, data collection, and analysis. Emphasis is placed on evaluating the results obtained from such investigations. Typically offered Fall Spring.

**MGMT 46200 - Advanced Manufacturing Planning And Control Systems**

Credit Hours: 3.00. An intensive individual computer lab supplements lectures examining the role of computerized information and control systems in manufacturing. An elaborate series of case studies, enlivened by advanced computer simulations, bring together production planning, master scheduling, materials planning, short-range capacity planning, production floor execution, and quality control. Students plan and execute the production and purchasing of all parts, aided by an integrated MRP/capacity planning/shop-floor control system built into the computer simulation. Typically offered Fall.

**MGMT 41100 - Investment Management**

Credit Hours: 3.00. Examination of investment alternatives relevant to the individual and/or family-unit investor. Operations of the markets in which securities are traded. Theory and application of security valuation, portfolio construction, capital markets, and performance evaluation. Particular attention given to fixed income securities, common stocks, options, investment companies, and other popular investment alternatives. Typically offered Fall Spring.

**MGMT 42110 - Marketing Analytics**

Credit Hours: 3.00. This course covers essential decision models and strategic metrics that form the cornerstone of marketing analytics. Using the insight gained in the course, students can predict the outcome of marketing plans to boost return on marketing investment (ROMI). The course emphasizes hands-on learning so students can immediately apply the tools and techniques. A variety of relevant topics are discussed, such as market sizing, forecasting and positioning, promotion budget allocation, profit maximization, and communicating to senior executives through data-driven presentations. Typically offered Fall Spring.

**MGMT 46300 - Supply Chain Analytics**

Credit Hours: 3.00. Supply Chain Analytics focuses on data-driven and rigorous decision making in supply chain management. It is a complete problem solving and decision making process, and integrates a broad set of analytical methodologies that enable the creation of business value. MGMT 30600 is highly recommended but not required. Basic Calculus, Statistics, and Excel literacy are required. Typically offered Fall Spring Summer.

**MGMT 50600 - Auditing**

Credit Hours: 3.00. A study of the concepts and procedures of auditing, which is the systematic process of objectively obtaining and evaluating evidence regarding assertions about economic actions and events. Primary emphasis is on audits conducted by independent certified public accountants, but topics covered apply to internal auditing as well. Typically offered Spring.
Other Departmental/Program Course Requirements (63- 66 credits)

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

ENGL 42100 - Technical Writing

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis,
data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information— for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN: IPO 1802 Accounting II

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL: ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL: ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00
Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

**CHM 11500 - General Chemistry**

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases, liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL:IPS 1721 General Chemistry I w/lab

**CHM 11600 - General Chemistry**

Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

**PHYS 17200 - Modern Mechanics**

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I

**PHYS 21800 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 21900 - General Physics II**

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 22000 - General Physics**
PHYS 22100 - General Physics

Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

PHYS 24100 - Electricity And Optics

Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.

Management Admissions Index (MAI) Core*

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a
one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

**MA 16200 - Plane Analytic Geometry And Calculus II**

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

**MA 16600 - Analytic Geometry And Calculus II**

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

**Electives (6-9 credits)**

**University Core Requirements**

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
• Written Communication
• Oral Communication
• Quantitative Reasoning

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities
≈ Also counts for UC Science Technology & Society
≥ Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.
ANTH 34100 - Culture And Personality

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

CLCS 18100 - Classical World Civilizations

Credit Hours: 3.00. Course introduces students to “Classical” civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

CLCS 38000 - Alexander The Great and Hellenistic World

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

CLCS 48000 - Potters And Society In Antiquity

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

COM 22400 - Communicating In The Global Workplace

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

COM 30300 - Intercultural Communication
Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

**FNR 23000 - The World's Forests And Society**

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

**HIST 10300 - Introduction To The Medieval World**

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

**HIST 10400 - Introduction To The Modern World**

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

**HIST 10500 - Survey Of Global History**

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

**HIST 24000 - East Asia And Its Historic Tradition**

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.
HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

HIST 32900 - History Of Women In Modern Europe

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

HIST 34400 - History Of Modern Japan

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

HIST 39200 - Caribbean History And Culture

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

HIST 34000 - Modern China
Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

**SOC 33900 - Introduction To The Sociology Of Developing Nations**

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

**PHIL 11400 - Global Moral Issues**

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

**PHIL 23000 - Religions Of The East**

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

**PHIL 23100 - Religions Of The West**

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

**POL 13000 - Introduction To International Relations**

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics
POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

POL 23700 - Modern Weapons And International Relations

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

POL 34800 - East Asian Politics

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

POL 40300 - Field Experience In Political Science

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

ECON 37000 - International Trade

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

MGMT 41500 - International Financial Management
Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**Program Requirements**

**Fall 1st Year**

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I
ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

- CHM or PHYS (CC) - Credit Hours: 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

15-16 Credits

Spring 1st Year

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II
Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. 

CTL:IMA 1603 Calculus - Long II

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS (CC) - Credit Hours: 4.00
- UC Humanities - Credit Hours: 3.00

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

Fall 2nd Year

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL: ISH 1042 Microeconomics

**MA 26100 - Multivariate Calculus**
Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- UC Science Tech & Society - Credit Hours: 3.00

16 Credits

**Spring 2nd Year**

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information—for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits
Fall 3rd Year

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

- Required ANLC Course - Credit Hours: 3.00

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

15 Credits

Spring 3rd Year

- International Elective - Credit Hours: 3.00

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making.
Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

- Required ANLC Course - Credit Hours: 3.00

15 Credits

**Fall 4th Year**

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**
Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

- Required ANLC Course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year

MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

- Required ANLC Course - Credit Hours: 3.00
- Required ANLC Course - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

120 Total Credits

Note

*UC* Satisfies a University Core Requirement

◊ Completion prior to admittance to upper division strongly encouraged
Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Industrial Management/Computer Science, BSIM

About the Program

Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.

Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.

Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).

Industrial Management Website

Degree Requirements and Supplemental Information
The full Program Requirements for Industrial Management-Computer Science include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM  
Code: IMCS  
Credit Hours: 120  
Graduation Index: 2.00 minimum  
Major Index: 2.00 minimum

**Management Admissions Index Core (MAI)**

- To be automatically admitted into upper division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.40 cumulative GPA, have a C- or higher in all MAI and School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: [http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp](http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp)
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- Students are responsible for consulting their advisor about re-take options available to them.
- Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

**Required Major Upper Division Courses (33 credits)**

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**
MGMT 30600 - Management Science

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management
Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**Major Selectives* - Complete the following courses (17 credits)**

**CS 18000 - Problem Solving And Object-Oriented Programming**

Credit Hours: 4.00. Problem solving and algorithms, implementation of algorithms in a high level programming language, conditionals, the iterative approach and debugging, collections of data, searching and sorting, solving problems by decomposition, the object-oriented approach, subclasses of existing classes, handling exceptions that occur when the program is running, graphical user interfaces (GUIs), data stored in files, abstract data types, a glimpse at topics from other CS courses. Intended primarily for students majoring in computer sciences. Credit cannot be obtained for both CS 18000 and any of 15600, CS 15800 and CS 15900. Not open to students with credit in CS 18100 or CS 24000. Typically offered Fall Spring.

**CS 18200 - Foundations Of Computer Science**

Credit Hours: 3.00. Logic and proofs; sets, functions, relations, sequences and summations; number representations; counting; fundamentals of the analysis of algorithms; graphs and trees; proof techniques; recursion; Boolean logic; finite state machines; pushdown automata; computability and undecidability. Typically offered Spring Fall.

**CS 24000 - Programming In C**

Credit Hours: 3.00. The UNIX environment, C development cycle, data representation, operators, program structure, recursion,
macros, C preprocessor, pointers and addresses, dynamic memory allocation, structures, unions, typedef, bit-fields, pointer/structure applications, UNIX file abstraction, file access, low-level I/O, concurrency. Typically offered Fall Spring.

CS 25000 - Computer Architecture

Credit Hours: 4.00. Digital logic: transistors, gates, and combinatorial circuits; clocks; registers and register banks; arithmetic-logic units; data representation: big-endian and little-endian integers; ones and twos complement arithmetic; signed and unsigned values; Von-Neumann architecture and bottleneck; instruction sets; RISC and CISC designs; instruction pipelines and stalls; rearranging code; memory and address spaces; physical and virtual memory; interleaving; page tables; memory caches; bus architecture; polling and interrupts; DMA; device programming; assembly language; optimizations; parallelism; data pipelining. Typically offered Fall Spring.

CS 25100 - Data Structures And Algorithms

Credit Hours: 3.00. Running time analysis of algorithms and their implementations, one-dimensional data structures, trees, heaps, additional sorting algorithms, binary search trees, hash tables, graphs, directed graphs, weighted graph algorithms, additional topics. Typically offered Fall Spring.

Other Departmental/Program Course Requirements (63- 66 credits)

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.
ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

ENGL 42100 - Technical Writing

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis, data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.

MA 26100 - Multivariate Calculus

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information— for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00
PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00

Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

CHM 11500 - General Chemistry

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases, liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL:IPS 1721 General Chemistry I w/lab

CHM 11600 - General Chemistry

Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

PHYS 17200 - Modern Mechanics

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in
mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I

**PHYS 21800 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 21900 - General Physics II**

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 22000 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

**PHYS 22100 - General Physics**

Credit Hours: 4.00. Electricity, light, and modern physics, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1752 Algebra-based Physics II

**PHYS 24100 - Electricity And Optics**

Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.

**Management Admissions Index (MAI) Core**

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**
Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the
statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

Electives (4-7 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

Note

*UC* Satisfies a University Core Requirement

◊ Completion prior to admittance to Upper Division strongly encouraged

CC Critical Course to satisfy MAI requirements

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities

≈ Also counts for UC Science Technology & Society

≥ Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.
AGEC 34000 - International Economic Development

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

AGEC 45000 - International Agricultural Trade

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

ANTH 34000 - Global Perspectives On Health

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

ANTH 34100 - Culture And Personality

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

CLCS 18100 - Classical World Civilizations

Credit Hours: 3.00. Course introduces students to "Classical" civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.
**CLCS 38000 - Alexander The Great and Hellenistic World**

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

**CLCS 48000 - Potters And Society In Antiquity**

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

**COM 22400 - Communicating In The Global Workplace**

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

**COM 30300 - Intercultural Communication**

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

**FNR 23000 - The World’s Forests And Society**

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

**HIST 10300 - Introduction To The Medieval World**

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians,
love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

**HIST 10400 - Introduction To The Modern World**

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

**HIST 10500 - Survey Of Global History**

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

**HIST 24000 - East Asia And Its Historic Tradition**

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

**HIST 24300 - South Asian History And Civilizations**

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

**HIST 32000 - The World Of Charlemagne**

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

**HIST 32900 - History Of Women In Modern Europe**

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.
HIST 34300 - Traditional Japan

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

HIST 34400 - History Of Modern Japan

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

HIST 39200 - Caribbean History And Culture

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

HIST 34000 - Modern China

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

HIST 40300 - Europe In The Reformation

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

SOC 33900 - Introduction To The Sociology Of Developing Nations

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

PHIL 11400 - Global Moral Issues
Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

**PHIL 23000 - Religions Of The East**

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

**PHIL 23100 - Religions Of The West**

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

**POL 13000 - Introduction To International Relations**

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

**POL 14100 - Governments Of The World**

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

**POL 23500 - International Relations Among Rich And Poor Nations**

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

**POL 23700 - Modern Weapons And International Relations**

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.
POL 34800 - East Asian Politics

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

POL 40300 - Field Experience In Political Science

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

ECON 37000 - International Trade

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

MGMT 41500 - International Financial Management

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

MGMT 42210 - International Marketing

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

MGMT 45900 - International Management

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations,
building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

Program Requirements

Fall 1st Year

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.
  • CHM or PHYS - Credit Hours: 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning
experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020
Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

15-16 Credits

Spring 1st Year

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS - Credit Hours: 4.00
- UC Humanities - Credit Hours: 3.00

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting
executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

Fall 2nd Year

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL: ISH 1042 Microeconomics

MA 26100 - Multivariate Calculus

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

• UC Science Tech & Society - Credit Hours: 3.00

16 Credits

Spring 2nd Year
STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN: IPO 1802 Accounting II

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL: ISH 1041 Macroeconomics

- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

Fall 3rd Year

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.
MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

CS 18000 - Problem Solving And Object-Oriented Programming

Credit Hours: 4.00. Problem solving and algorithms, implementation of algorithms in a high level programming language, conditionals, the iterative approach and debugging, collections of data, searching and sorting, solving problems by decomposition, the object-oriented approach, subclasses of existing classes, handling exceptions that occur when the program is running, graphical user interfaces (GUIs), data stored in files, abstract data types, a glimpse at topics from other CS courses. Intended primarily for students majoring in computer sciences. Credit cannot be obtained for both CS 18000 and any of 15600, CS 15800 and CS 15900. Not open to students with credit in CS 18100 or CS 24000. Typically offered Fall Spring.

16 Credits

Spring 3rd Year

CS 18200 - Foundations Of Computer Science

Credit Hours: 3.00. Logic and proofs; sets, functions, relations, sequences and summations; number representations; counting; fundamentals of the analysis of algorithms; graphs and trees; proof techniques; recursion; Boolean logic; finite state machines; pushdown automata; computability and undecidability. Typically offered Spring Fall.

MGMT 30600 - Management Science

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.
OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

ECON 41900 - Managerial Economics

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

- International Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time
manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

**CS 24000 - Programming In C**

Credit Hours: 3.00. The UNIX environment, C development cycle, data representation, operators, program structure, recursion, macros, C preprocessor, pointers and addresses, dynamic memory allocation, structures, unions, typedef, bit-fields, pointer/structure applications, UNIX file abstraction, file access, low-level I/O, concurrency. Typically offered Fall Spring.

- General Elective - Credit Hours: 2.00

14 Credits

Spring 4th Year

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**CS 25000 - Computer Architecture**

Credit Hours: 4.00. Digital logic: transistors, gates, and combinatorial circuits; clocks; registers and register banks; arithmetic-logic units; data representation: big-endian and little-endian integers; ones and twos complement arithmetic; signed and unsigned values; Von-Neumann architecture and bottleneck; instruction sets; RISC and CISC designs; instruction pipelines and stalls; rearranging code; memory and address spaces; physical and virtual memory; interleaving; page tables; memory caches; bus architecture; polling and interrupts; DMA; device programming; assembly language; optimizations; parallelism; data pipelining. Typically offered Fall Spring.

**CS 25100 - Data Structures And Algorithms**
Credit Hours: 3.00. Running time analysis of algorithms and their implementations, one-dimensional data structures, trees, heaps, additional sorting algorithms, binary search trees, hash tables, graphs, directed graphs, weighted graph algorithms, additional topics. Typically offered Fall Spring.

- General Elective - Credit Hours: 2.00

15 Credits

120 Total Credits

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

- American Sign Language
- Arabic
- Chinese
- French
- German
- (ancient) Greek
- Hebrew
- Italian
- Japanese
- Latin
- Portuguese
- Russian
- Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Industrial Management/Economics Honors, BSIM

About the Program

Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.

Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.
Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).

Industrial Management Website

Degree Requirements and Supplemental Information

The full Program Requirements for Industrial Management - Economics Honors include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM
Code: IMEH
Credit Hours: 120
Graduation Index: 2.00 / 3.50 minimum
Major Index: 2.00 / 3.50 minimum

Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for upper division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- School of Management, MAI, and concentration courses with grades of "F" cannot be replaced by a transfer course.
- Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

Required Major Upper Division Courses (33 credits)

OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.
MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 30600 - Management Science

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems
Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**Major Selectives* - Choose ONE track to complete below (15 credits)**

Complete all of the following courses for ECON non- honors (15 credits)

**ECON 34000 - Intermediate Microeconomic Theory**

Credit Hours: 3.00. Topics from consumer behavior and demand, decisions under uncertainty, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Typically offered Fall Spring.

**ECON 35200 - Intermediate Macroeconomics**
Credit Hours: 3.00. Continuation of ECON 25200. A more rigorous, general equilibrium treatment of macroeconomic theory with emphasis on the components of the model: determinants of consumption, investment, net exports and foreign exchange rates, the level of unemployment, inflation and the long-run rate of economic growth. Typically offered Fall Spring.

- ECON 30000 or 40000 level courses - Credit Hours: 3.00
- ECON 30000 or 40000 level courses - Credit Hours: 3.00
- ECON 30000 or 40000 level courses - Credit Hours: 3.00

Complete all of the following courses for ECON Honors (15 credits)

**ECON 34000 - Intermediate Microeconomic Theory**

Credit Hours: 3.00. Topics from consumer behavior and demand, decisions under uncertainty, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Typically offered Fall Spring.

**ECON 35200 - Intermediate Macroeconomics**

Credit Hours: 3.00. Continuation of ECON 25200. A more rigorous, general equilibrium treatment of macroeconomic theory with emphasis on the components of the model: determinants of consumption, investment, net exports and foreign exchange rates, the level of unemployment, inflation and the long-run rate of economic growth. Typically offered Fall Spring.

**ECON 36000 - Econometrics**

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate casual effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

**ECON 49900 - Senior Honors Thesis**

Credit Hours: 3.00. Execution by economics honors students of a senior honors thesis under the direction and supervision of the faculty. In addition to a paper, completion of the research project may involve the presentation of the findings in a seminar or workshop setting. Permission of Instructor required. Typically offered Spring.

- ECON 30000 or 40000 level courses - Credit Hours: 3.00

Other Departmental/Program Course Requirements (63-66 credits)
MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

ENGL 42100 - Technical Writing

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis, data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.
MA 26100 - Multivariate Calculus

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN: IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL: ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL: ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00
Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

**CHM 11500 - General Chemistry**

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases, liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL:IPS 1721 General Chemistry I w/lab

**CHM 11600 - General Chemistry**

Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

**PHYS 17200 - Modern Mechanics**

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I

**PHYS 21800 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 21900 - General Physics II**

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 22000 - General Physics**
Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

**PHYS 22100 - General Physics**

Credit Hours: 4.00. Electricity, light, and modern physics, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1752 Algebra-based Physics II

**PHYS 24100 - Electricity And Optics**

Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.

**Management Admissions Index (MAI) Core***

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a
one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

**MA 16200 - Plane Analytic Geometry And Calculus II**

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

**MA 16600 - Analytic Geometry And Calculus II**

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPM 1901 Accounting I

**Electives (6-9 credits)**

**University Core Requirements**

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities
≈ Also counts for UC Science Technology & Society
≥ Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.
ANTH 34100 - Culture And Personality

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

CLCS 18100 - Classical World Civilizations

Credit Hours: 3.00. Course introduces students to “Classical” civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Summer.

CLCS 38000 - Alexander The Great and Hellenistic World

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

CLCS 48000 - Potters And Society In Antiquity

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

COM 22400 - Communicating In The Global Workplace

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

COM 30300 - Intercultural Communication
Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

**FNR 23000 - The World's Forests And Society**

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

**HIST 10300 - Introduction To The Medieval World**

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

**HIST 10400 - Introduction To The Modern World**

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

**HIST 10500 - Survey Of Global History**

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

**HIST 24000 - East Asia And Its Historic Tradition**

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.
HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

HIST 32900 - History Of Women In Modern Europe

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

HIST 34400 - History Of Modern Japan

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

HIST 39200 - Caribbean History And Culture

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

HIST 34000 - Modern China
Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

**SOC 33900 - Introduction To The Sociology Of Developing Nations**

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

**PHIL 11400 - Global Moral Issues**

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

**PHIL 23000 - Religions Of The East**

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

**PHIL 23100 - Religions Of The West**

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

**POL 13000 - Introduction To International Relations**

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics
POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

POL 23700 - Modern Weapons And International Relations

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

POL 34800 - East Asian Politics

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

POL 40300 - Field Experience In Political Science

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

ECON 37000 - International Trade

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

MGMT 41500 - International Financial Management
Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**Program Requirements**

**Fall 1st Year**

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I
ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.
  - CHM or PHYS - Credit Hours: 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

15-16 Credits

Spring 1st Year

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II
Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS - Credit Hours: 4.00
- UC Humanities - Credit Hours: 3.00

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

**Fall 2nd Year**

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**MA 26100 - Multivariate Calculus**
Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.
- UC Science Tech & Society - Credit Hours: 3.00

16 Credits

Spring 2nd Year

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer.
- CCN:IPO 1802 Accounting II

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer.
- CTL:ISH 1041 Macroeconomics
- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits
Fall 3rd Year

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

- Required ECON Courses - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- International Elective - Credit Hours: 3.00

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making.
Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

ECON 41900 - Managerial Economics

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

- Required ECON Courses - Credit Hours: 3.00

15 Credits

Fall 4th Year

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management
Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

- General Elective - Credit Hours: 3.00
- Required ECON Courses - Credit Hours: 3.00

15 Credits

Spring 4th Year

MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

- Required ECON Courses - Credit Hours: 3.00
- Required ECON Courses - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

120 Total Credits

Note

*UC* Satisfies a University Core Requirement

◊ Completion prior to admittance to Upper Division strongly encouraged
CC Critical Course to satisfy MAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Industrial Management/Economics, BSIM

About the Program

Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.

Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.

Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).

Industrial Management Website

Degree Requirements and Supplemental Information
The full Program Requirements for Industrial Management - Economics include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM  
Code: IMEC  
Credit Hours: 120  
Graduation Index: 2.00 minimum / 3.50 minimum  
Major Index: 2.00 / 3.50 minimum

Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- School of Management, MAI, and concentration courses with grades of "F" cannot be replaced by a transfer course.
- Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

Required Major Upper Division Courses (33 credits)

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.
MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 30600 - Management Science

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.
**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**Major Selectives* - Choose ONE track to complete below (15 credits)**

**Complete all of the following courses for ECON non- honors (15 credits)**

**ECON 34000 - Intermediate Microeconomic Theory**

Credit Hours: 3.00. Topics from consumer behavior and demand, decisions under uncertainty, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Typically offered Fall Spring.

**ECON 35200 - Intermediate Macroeconomics**

Credit Hours: 3.00. Continuation of ECON 25200. A more rigorous, general equilibrium treatment of macroeconomic theory with emphasis on the components of the model: determinants of consumption, investment, net exports and foreign exchange rates, the level of unemployment, inflation and the long-run rate of economic growth. Typically offered Fall Spring.

- ECON 30000 or 40000 level courses - Credit Hours: 3.00
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Complete all of the following courses for ECON Honors (15 credits)

**ECON 34000 - Intermediate Microeconomic Theory**

Credit Hours: 3.00. Topics from consumer behavior and demand, decisions under uncertainty, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Typically offered Fall Spring.

**ECON 35200 - Intermediate Macroeconomics**

Credit Hours: 3.00. Continuation of ECON 25200. A more rigorous, general equilibrium treatment of macroeconomic theory with emphasis on the components of the model: determinants of consumption, investment, net exports and foreign exchange rates, the level of unemployment, inflation and the long-run rate of economic growth. Typically offered Fall Spring.

**ECON 36000 - Econometrics**

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate casual effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

**ECON 49900 - Senior Honors Thesis**

Credit Hours: 3.00. Execution by economics honors students of a senior honors thesis under the direction and supervision of the faculty. In addition to a paper, completion of the research project may involve the presentation of the findings in a seminar or workshop setting. Permission of Instructor required. Typically offered Spring.

- ECON 30000 or 40000 level courses - Credit Hours: 3.00

**Other Departmental/Program Course Requirements (63- 66 credits)**

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search
strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**ENGL 42100 - Technical Writing**

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis, data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.
MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN: IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL: ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL: ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00

Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

CHM 11500 - General Chemistry

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases,
liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL:IPS 1721 General Chemistry I w/lab

CHM 11600 - General Chemistry

Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

PHYS 17200 - Modern Mechanics

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I

PHYS 21800 - General Physics

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

PHYS 21900 - General Physics II

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

PHYS 22000 - General Physics

Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

PHYS 22100 - General Physics

Credit Hours: 4.00. Electricity, light, and modern physics, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1752 Algebra-based Physics II

PHYS 24100 - Electricity And Optics
Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.

Management Admissions Index (MAI) Core*

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

**MA 16200 - Plane Analytic Geometry And Calculus II**
Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

**MA 16600 - Analytic Geometry And Calculus II**

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

**Electives (6-9 credits)**

**University Core Requirements**

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

**International Electives**

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities
≈ Also counts for UC Science Technology & Society
Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**

Credit Hours: 3.00. Course introduces students to “Classical” civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion,
philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer
Fall Spring.

CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established
in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in
the 21st century. All readings in English. Typically offered Fall Spring Summer.

CLCS 38000 - Alexander The Great and Hellenistic World

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics
include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession
following his demise. Typically offered Summer Fall Spring.

CLCS 48000 - Potters And Society In Antiquity

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological
Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and
historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

COM 22400 - Communicating In The Global Workplace

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course
develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business.
Typically offered Fall.

COM 30300 - Intercultural Communication

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group,
organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes,
and skills associated with intercultural communication competence. Typically offered Fall Spring.

CSR 33200 - Cross-Cultural Marketing And International Retailing

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments.
Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.
FNR 23000 - The World's Forests And Society

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

HIST 10300 - Introduction To The Medieval World

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

HIST 10400 - Introduction To The Modern World

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

HIST 10500 - Survey Of Global History

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne
Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

**HIST 32900 - History Of Women In Modern Europe**

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

**HIST 34300 - Traditional Japan**

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

**HIST 34400 - History Of Modern Japan**

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

**HIST 39200 - Caribbean History And Culture**

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

**HIST 34000 - Modern China**

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.
**SOC 33900 - Introduction To The Sociology Of Developing Nations**

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

**PHIL 11400 - Global Moral Issues**

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

**PHIL 23000 - Religions Of The East**

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

**PHIL 23100 - Religions Of The West**

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

**POL 13000 - Introduction To International Relations**

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

**POL 14100 - Governments Of The World**

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

**POL 23500 - International Relations Among Rich And Poor Nations**

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations.
Examine such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

POL 23700 - Modern Weapons And International Relations

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

POL 34800 - East Asian Politics

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

POL 40300 - Field Experience In Political Science

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

ECON 37000 - International Trade

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

MGMT 41500 - International Financial Management

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

MGMT 42210 - International Marketing

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of
international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

MGMT 45900 - International Management

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

Program Requirements

Fall 1st Year

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition
Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

- CHM or PHYS - Credit Hours: 4.00

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

15-16 Credits

**Spring 1st Year**

**MA 16200 - Plane Analytic Geometry And Calculus II**

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

**MA 16600 - Analytic Geometry And Calculus II**

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from
interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS - Credit Hours: 4.00
- UC Humanities - Credit Hours: 3.00

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

**Fall 2nd Year**

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

**CS 23500 - Introduction To Organizational Computing**
Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- UC Science Tech & Society - Credit Hours: 3.00

16 Credits

Spring 2nd Year

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management’s internal use of accounting information—for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer.

CCN: IPO 1802 Accounting II

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer.

CTL: ISH 1041 Macroeconomics
- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

**MGMT 30500 - Business Statistics**
Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

- Required ECON Course - Credit Hours: 3.00

15 Credits

**Spring 3rd Year**

- International Elective - Credit Hours: 3.00

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior
within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is
given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict
management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically
offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics
include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are
emphasized. Permission of Department required. Typically offered Fall Spring.

- Required ECON Course - Credit Hours: 3.00

15 Credits

**Fall 4th Year**

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and
their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and
general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and
discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic
decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered
Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both
national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement
procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and
service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time
manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications.
Typically offered Fall Spring.

- Required ECON Course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
Spring 4th Year

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

- Required ECON Course - Credit Hours: 3.00
- Required ECON Course - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

120 Total Credits

**Note**

◊ Completion prior to admittance to Upper Division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

**Degree Requirements**

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion
Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Industrial Management/Engineering, BSIM

About the Program

Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.

Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.

Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).

Industrial Management Website

Degree Requirements and Supplemental Information

The full Program Requirements for Industrial Management - Engineering include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM
Code: IMEN
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum
Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
  - Students are responsible for consulting their advisor about re-take options available to them.
  - Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

Required Major Upper Division Courses (33 credits)

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making.
Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**
Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**Major Selectives* - Complete 5 of the following courses (15 credits)**

**IE 38600 - Work Analysis And Design I**

Credit Hours: 3.00. Fundamentals of work methods and measurement. Applications of engineering, psychological, and physiological principles to the analysis and design of human work systems. Typically offered Fall Spring.

**IE 55600 - Job Design**

Credit Hours: 3.00. (PSY 55600) Task analysis, personnel selection and training, job and organization design, and criteria development and use. Human factors related to job design in order to increase job satisfaction and productivity. Typically offered Fall.

**IE 55800 - Safety Engineering**

Credit Hours: 3.00. Application of human factors and engineering practice in accident prevention and the reduction of health hazards are presented. The objective of this course is to provide an understanding of the safety and health practices which fall within the responsibilities of the engineer in industry. Special attention is devoted to the detection and correction of hazards and to contemporary laws and enforcement on occupational safety and health. Typically offered Fall.

**IE 57700 - Human Factors In Engineering**

Credit Hours: 3.00. (PSY 57700) Survey of human factors in engineering with particular reference to human functions in human-machine systems, and consideration of human abilities and limitations in relation to design of equipment and work environments. Typically offered Spring Fall.
IE 53000 - Quality Control


IE 53300 - Industrial Applications Of Statistics

Credit Hours: 3.00. The application of statistics to the effective design and analysis of industrial studies relating to manufacturing and human factors engineering in order to optimize the utilization of equipment and resources. Emphasis on conducting these studies at the least cost. Typically offered Spring.

IE 54500 - Engineering Economic Analysis

Credit Hours: 3.00. Analysis of engineering costs and capital investments. Applications of classical optimization, mathematical programming, and the theory of production to the analysis of investment proposals. Evaluation and selection of individual projects and formulation of capital investment programs. Typically offered Fall.

IE 54600 - Economic Decisions In Engineering

Credit Hours: 3.00. Topics in decision making and rationality including decision analysis, decision making under uncertainty, and various descriptive and prescriptive models from operations research, economics, psychology, and business. Applications are drawn from engineering decision making, public policy, and personal decision making. Attention also is paid to designing aids to improve decision making. Typically offered Spring.

IE 59000 - Topics In Industrial Engineering

Credit Hours: 1.00 to 6.00. Selected topics in industrial engineering for seniors and graduate students. Permission of instructor required. Typically offered Spring Fall Summer.

Other Departmental/Program Course Requirements (63- 66 credits)

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.
COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

ENGL 42100 - Technical Writing

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis, data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.

MA 26100 - Multivariate Calculus

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.
MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN: IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00

Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

CHM 11500 - General Chemistry

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases,
liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL:IPS 1721 General Chemistry I w/lab

**CHM 11600 - General Chemistry**

Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

**PHYS 17200 - Modern Mechanics**

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I

**PHYS 21800 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 21900 - General Physics II**

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 22000 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

**PHYS 22100 - General Physics**

Credit Hours: 4.00. Electricity, light, and modern physics, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1752 Algebra-based Physics II

**PHYS 24100 - Electricity And Optics**
Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.

Management Admissions Index (MAI) Core*

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

MA 16200 - Plane Analytic Geometry And Calculus II
Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

**MA 16600 - Analytic Geometry And Calculus II**

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

Electives (6-9 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities

≈ Also counts for UC Science Technology & Society
≥ Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**

Credit Hours: 3.00. Course introduces students to "Classical” civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion,
philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

**CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity**

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

**CLCS 38000 - Alexander The Great and Hellenistic World**

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

**CLCS 48000 - Potters And Society In Antiquity**

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

**COM 22400 - Communicating In The Global Workplace**

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

**COM 30300 - Intercultural Communication**

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.
FNR 23000 - The World's Forests And Society

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

HIST 10300 - Introduction To The Medieval World

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

HIST 10400 - Introduction To The Modern World

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

HIST 10500 - Survey Of Global History

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne
Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

**HIST 32900 - History Of Women In Modern Europe**

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

**HIST 34300 - Traditional Japan**

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

**HIST 34400 - History Of Modern Japan**

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

**HIST 39200 - Caribbean History And Culture**

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

**HIST 34000 - Modern China**

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.
SOC 33900 - Introduction To The Sociology Of Developing Nations

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

PHIL 11400 - Global Moral Issues

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

PHIL 23000 - Religions Of The East

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

PHIL 23100 - Religions Of The West

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

POL 13000 - Introduction To International Relations

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations.
Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

**POL 23700 - Modern Weapons And International Relations**

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

**POL 34800 - East Asian Politics**

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

**POL 40300 - Field Experience In Political Science**

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of
international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

MGMT 45900 - International Management

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

Program Requirements

Fall 1st Year

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition
Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

- CHM or PHYS (CC) - Credit Hours: 4.00

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

**15-16 Credits**

**Spring 1st Year**

**MA 16200 - Plane Analytic Geometry And Calculus II**

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

**MA 16600 - Analytic Geometry And Calculus II**

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from
interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS (CC) - Credit Hours: 4.00
- UC Humanities - Credit Hours: 3.00

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

**Fall 2nd Year**

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

**CS 23500 - Introduction To Organizational Computing**
Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- UC Science, Tech & Society - Credit Hours: 3.00

16 Credits

Spring 2nd Year

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information—for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

**MGMT 30500 - Business Statistics**
Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

- Required Engineering Course - Credit Hours: 3.00

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

15 Credits

**Spring 3rd Year**

- International Elective - Credit Hours: 3.00

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior
within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

- Required Engineering Course - Credit Hours: 3.00

15 Credits

**Fall 4th Year**

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

- Required Engineering Course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
15 Credits

Spring 4th Year

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

- Required Engineering Course - Credit Hours: 3.00
- Required Engineering Course - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

120 Total Credits

**Note**

◊ Completion prior to admittance to Upper Division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

**Degree Requirements**

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion
Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Industrial Management/Financial Engineering, BSIM

About the Program

Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.

Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.

Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).

Industrial Management Website

Degree Requirements and Supplemental Information

The full Program Requirements for Industrial Management - Financial Engineering include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM
Code: IMFE
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum
Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- School of Management, MAI, and concentration courses with grades of "F" cannot be replaced by a transfer course.
- Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

Required Major Upper Division Courses (33 credits)

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making.
Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**
Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

Major Selectives* - Complete 5 of the following courses (15 credits)

MGMT 41100 - Investment Management

Credit Hours: 3.00. Examination of investment alternatives relevant to the individual and/or family-unit investor. Operations of the markets in which securities are traded. Theory and application of security valuation, portfolio construction, capital markets, and performance evaluation. Particular attention given to fixed income securities, common stocks, options, investment companies, and other popular investment alternatives. Typically offered Fall Spring.

MGMT 41200 - Financial Institutions And Markets

Credit Hours: 3.00. Introduction to financial markets and management of financial institutions. Emphasis on determinants of interest rates, and measurement and management of financial risk. Concentration on management of depository firms such as banks and savings and loans. Typically offered Fall Spring Summer.

MGMT 41500 - International Financial Management

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

MGMT 47200 - Advanced Spreadsheet Modeling And Simulation

Credit Hours: 3.00. This course covers up-to-date and practical spreadsheet modeling tools that can be applied to a wide variety of business problems from finance, marketing, and operations. The topical coverage consists of the following five modules: (1) Excel functions, skills and financial models; (2) deterministic and stochastic optimization techniques to determine the best
managerial actions under internally-and/or externally-imposed constraints; (3) probability distribution fitting techniques to find the most likely description of the uncertainty in future business; (4) simulation modeling techniques to discover and analyze the risk and uncertainties in business environment and processes; (5) application of spreadsheet modeling and simulation techniques in forecasting asset dynamics (stock price) and pricing options and real investment opportunities. This course provides hands-on experience of computer application using Microsoft Excel and the spreadsheet add-ins @RISK, RISKOptimizer, SimQuick, etc. Typically offered Spring.

MGMT 49000 - Problems In Industrial Management

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.

- MGMT 49000 Futures & Options

ECON 51100 - Intermediate Economics I

Credit Hours: 3.00. Consumer behavior and demand, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Not open to students with credit in ECON 34000. Typically offered Fall Summer.

ECON 56200 - Econometrics I

Credit Hours: 3.00. This masters-level course in econometrics covers the tools that will enable students to conduct empirical analysis using economics data. The course examines the statistical techniques used in testing economic theories, estimating casual effects, and making predictions. Emphasis is placed on estimating a single equation (e.g., a demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using STATA, a statistical software package. Permission of department required. Typically offered Fall.

IE 53500 - Linear Programming

Credit Hours: 3.00. Optimization of linear objective functions subject to linear constraints. Development of theory and algorithmic strategies for solving linear programming problems. Typically offered Spring Fall Summer.

IE 53800 - Nonlinear Optimization Algorithms And Models

Credit Hours: 3.00. Survey of computational tools for solving constrained and unconstrained nonlinear optimization problems. Emphasis on algorithmic strategies and characteristic structures of nonlinear problems. Typically offered Spring.

IE 54600 - Economic Decisions In Engineering
Credit Hours: 3.00. Topics in decision making and rationality including decision analysis, decision making under uncertainty, and various descriptive and prescriptive models from operations research, economics, psychology, and business. Applications are drawn from engineering decision making, public policy, and personal decision making. Attention also is paid to designing aids to improve decision making. Typically offered Spring.

**IE 58100 - Simulation Design And Analysis**

Credit Hours: 3.00. An introduction to simulation of stochastic systems on digital computers. Emphasis is on the fundamentals of simulation as a statistical experiment. Topics include uniform random numbers, input modeling, random variate generation, output analysis, variance reduction, and optimization. Typically offered Spring.

**IE 59000 - Topics In Industrial Engineering**

Credit Hours: 1.00 to 6.00. Selected topics in industrial engineering for seniors and graduate students. Permission of instructor required. Typically offered Spring Fall Summer.

**Other Departmental/Program Course Requirements (63- 66 credits)**

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.
ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

ENGL 42100 - Technical Writing

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis, data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.

MA 26100 - Multivariate Calculus

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information— for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00
PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00

Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

CHM 11500 - General Chemistry

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases, liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL:IPS 1721 General Chemistry I w/lab

CHM 11600 - General Chemistry

Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

PHYS 17200 - Modern Mechanics

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in
mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I

**PHYS 21800 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 21900 - General Physics II**

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 22000 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

**PHYS 22100 - General Physics**

Credit Hours: 4.00. Electricity, light, and modern physics, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1752 Algebra-based Physics II

**PHYS 24100 - Electricity And Optics**

Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.

**Management Admissions Index (MAI) Core**

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**
Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

**MA 16200 - Plane Analytic Geometry And Calculus II**

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

**MA 16600 - Analytic Geometry And Calculus II**

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the
statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

Electives (6-9 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities

≈ Also counts for UC Science Technology & Society

≥ Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the
greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**

Credit Hours: 3.00. Course introduces students to “Classical” civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

**CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity**

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

**CLCS 38000 - Alexander The Great and Hellenistic World**

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.
CLCS 48000 - Potters And Society In Antiquity

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

COM 22400 - Communicating In The Global Workplace

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

COM 30300 - Intercultural Communication

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

CSR 33200 - Cross-Cultural Marketing And International Retailing

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

FNR 23000 - The World's Forests And Society

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

HIST 10300 - Introduction To The Medieval World

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

HIST 10400 - Introduction To The Modern World

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and
the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

HIST 10500 - Survey Of Global History

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

HIST 32900 - History Of Women In Modern Europe

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.
HIST 34400 - History Of Modern Japan

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

HIST 39200 - Caribbean History And Culture

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

HIST 34000 - Modern China

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

HIST 40300 - Europe In The Reformation

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

SOC 33900 - Introduction To The Sociology Of Developing Nations

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

PHIL 11400 - Global Moral Issues

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

PHIL 23000 - Religions Of The East
Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

PHIL 23100 - Religions Of The West

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

POL 13000 - Introduction To International Relations

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

POL 23700 - Modern Weapons And International Relations

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

POL 34800 - East Asian Politics

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

POL 40300 - Field Experience In Political Science
Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**Program Requirements**

**Fall 1st Year**
MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

- CHM or PHYS (CC) - Credit Hours: 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or
senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

15-16 Credits

Spring 1st Year

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS (CC) - Credit Hours: 4.00
- UC Humanities - Credit Hours: 3.00

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

Fall 2nd Year
MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL: ISH 1042 Microeconomics

MA 26100 - Multivariate Calculus

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

• UC Science, Tech & Society - Credit Hours: 3.00

16 Credits

Spring 2nd Year

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

MGMT 20100 - Management Accounting I
Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer.

CCN: IPO 1802 Accounting II

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer.

CTL: ISH 1041 Macroeconomics
- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.
- Required IMFE Course - Credit Hours: 3.00

ENGL 42000 - Business Writing
Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

15 Credits

Spring 3rd Year

- International Elective - Credit Hours: 3.00

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

- Required IMFE Course - Credit Hours: 3.00

15 Credits

Fall 4th Year

**MGMT 38200 - Management Information Systems**
Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

- Required IMFE Course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

**Spring 4th Year**

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.
Required IMFE Course - Credit Hours: 3.00
Required IMFE Course - Credit Hours: 3.00
General Elective - Credit Hours: 2.00

14 Credits

Total Credits 120

Note

◊ Completion prior to admittance to Upper Division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Industrial Management/Management Information Systems, BSIM

About the Program

Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.
Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.

Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).

Industrial Management Website

Degree Requirements and Supplemental Information

The full Program Requirements for Industrial Management - Management Information Systems include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM
Code: IMMI
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum

Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- School of Management, MAI, and concentration courses with grades of "F" cannot be replaced by a transfer course.
- Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

Required Major Upper Division Courses (33 credits)

OBHR 33000 - Introduction To Organizational Behavior
Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and
service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

ECON 41900 - Managerial Economics

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

Major Selectives* - Complete the following courses (15 credits)

MGMT 29000 - Problems In Management

Credit Hours: 0.00 to 4.00. Arrange with instructor before enrolling. Investigation in a specific management field. Permission of instructor required. Typically offered Fall Spring Summer.
MGMT 54400 - Database Management Systems

Credit Hours: 3.00. Covers the theory and practice of database design and usage. Students will learn the importance of data modeling concepts and how to use these effectively and how to plan and design a database, including issues such as data security and control. The following course is recommended: MGMT 29000 Programming for Business Applications or CS 15900 or CS 17700 or CNIT 17500, all with a C- or higher. Typically offered Fall Spring.

MGMT 54500 - Systems Development

Credit Hours: 3.00. Focuses on information systems development theories, practices, and tools for rapid adaptation and management of leading-edge as well as emerging computing paradigms. The following courses are recommended: MGMT 38200, with a C- or higher; and MGMT 29000 Programming for Business Applications or CS 15900 or CS 17700 or CNIT 17500, all with a minimum grade of C-. Permission of department required. Typically offered Spring.

MGMT 54700 - Computer Communications Systems

Credit Hours: 3.00. Explores the convergence of telecommunications and computer technology, framed in terms of their strategic impact in the business environment. Components of computer communication systems are surveyed. Major design and analysis issues in the development, implementation, and management of computer communication systems are examined. Relevant emerging trends are highlighted. The course is devoted to technical issues, applications, and case studies covering telecommunication systems used in business. Typically offered Fall.

MGMT 48800 - Electronic Commerce And Information Strategies

Credit Hours: 3.00. Discuss the new business models in electronic commerce that have been enabled by Internet technologies and analyze the impact these technologies and business models have on industries, firms and people. Typically offered Spring.

Other Departmental/Program Course Requirements (63- 66 credits)

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

COM 11400 - Fundamentals Of Speech Communication
Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**ENGL 42100 - Technical Writing**

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis, data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100 . Typically offered Fall Spring Summer.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production
management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer.

CCN: IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL: ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL: ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00

Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

CHM 11500 - General Chemistry

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases, liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL: IPS 1721 General Chemistry I w/lab
CHM 11600 - General Chemistry

Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

PHYS 17200 - Modern Mechanics

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I

PHYS 21800 - General Physics

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

PHYS 21900 - General Physics II

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

PHYS 22000 - General Physics

Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

PHYS 22100 - General Physics

Credit Hours: 4.00. Electricity, light, and modern physics, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1752 Algebra-based Physics II

PHYS 24100 - Electricity And Optics

Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.
Management Admissions Index (MAI) Core*

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

**MA 16200 - Plane Analytic Geometry And Calculus II**

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series,
conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IP 1801 Accounting I

Electives (6-9 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities
≈ Also counts for UC Science Technology & Society
≥ Check myPurdue for course pre-requisites
AGEC 25000 - Economic Geography Of World Food And Resources

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

AGEC 34000 - International Economic Development

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

AGEC 45000 - International Agricultural Trade

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

ANTH 34000 - Global Perspectives On Health

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

ANTH 34100 - Culture And Personality

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

CLCS 18100 - Classical World Civilizations

Credit Hours: 3.00. Course introduces students to "Classical" civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.
CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

CLCS 38000 - Alexander The Great and Hellenistic World

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

CLCS 48000 - Potters And Society In Antiquity

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

COM 22400 - Communicating In The Global Workplace

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

COM 30300 - Intercultural Communication

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

CSR 33200 - Cross-Cultural Marketing And International Retailing

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

FNR 23000 - The World's Forests And Society
Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

**HIST 10300 - Introduction To The Medieval World**

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

**HIST 10400 - Introduction To The Modern World**

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

**HIST 10500 - Survey Of Global History**

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

**HIST 24000 - East Asia And Its Historic Tradition**

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

**HIST 24300 - South Asian History And Civilizations**

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

**HIST 32000 - The World Of Charlemagne**

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.
HIST 32900 - History Of Women In Modern Europe

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

HIST 34400 - History Of Modern Japan

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

HIST 39200 - Caribbean History And Culture

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

HIST 34000 - Modern China

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

HIST 40300 - Europe In The Reformation

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

SOC 33900 - Introduction To The Sociology Of Developing Nations
Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

**PHIL 11400 - Global Moral Issues**

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

**PHIL 23000 - Religions Of The East**

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

**PHIL 23100 - Religions Of The West**

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

**POL 13000 - Introduction To International Relations**

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

**POL 14100 - Governments Of The World**

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

**POL 23500 - International Relations Among Rich And Poor Nations**

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.
POL 23700 - Modern Weapons And International Relations

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

POL 34800 - East Asian Politics

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

POL 40300 - Field Experience In Political Science

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

ECON 37000 - International Trade

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

MGMT 41500 - International Financial Management

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

MGMT 42210 - International Marketing

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.
MGMT 45900 - International Management

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

Program Requirements

Fall 1st Year

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100 , or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

- CHM or PHYS (CC) - Credit Hours: 4.00
PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer.CTL:ISH 1060 Introduction To Sociology

15-16 Credits

Spring 1st Year

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS (CC) - Credit Hours: 4.00
- UC Humanities - Credit Hours: 3.00
MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

Fall 2nd Year

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL: ISH 1042 Microeconomics

MA 26100 - Multivariate Calculus

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- UC Science, Tech & Society - Credit Hours: 3.00
16 Credits

Spring 2nd Year

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics
- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**MGMT 30500 - Business Statistics**
Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

15 Credits

**Spring 3rd Year**

- International Elective - Credit Hours: 3.00

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**
Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 29000 - Problems In Management**

Credit Hours: 0.00 to 4.00. Arrange with instructor before enrolling. Investigation in a specific management field. Permission of instructor required. Typically offered Fall Spring Summer.

15 Credits

Fall 4th Year

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

**MGMT 54400 - Database Management Systems**

Credit Hours: 3.00. Covers the theory and practice of database design and usage. Students will learn the importance of data modeling concepts and how to use them effectively and how to plan and design a database, including issues such as data security.
and control. The following course is recommended: MGMT 29000 Programming for Business Applications or CS 15900 or CS 17700 or CNIT 17500, all with a C- or higher. Typically offered Fall Spring.

**MGMT 54500 - Systems Development**

Credit Hours: 3.00. Focuses on information systems development theories, practices, and tools for rapid adaptation and management of leading-edge as well as emerging computing paradigms. The following courses are recommended: MGMT 38200, with a C- or higher; and MGMT 29000 Programming for Business Applications or CS 15900 or CS 17700 or CNIT 17500, all with a minimum grade of C-. Permission of department required. Typically offered Spring.

- General Elective - Credit Hours: 3.00

**15 Credits**

**Spring 4th Year**

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**MGMT 48800 - Electronic Commerce And Information Strategies**

Credit Hours: 3.00. Discuss the new business models in electronic commerce that have been enabled by Internet technologies and analyze the impact these technologies and business models have on industries, firms and people. Typically offered Spring.

**MGMT 54700 - Computer Communications Systems**

Credit Hours: 3.00. Explores the convergence of telecommunications and computer technology, framed in terms of their strategic
impact in the business environment. Components of computer communication systems are surveyed. Major design and analysis
issues in the development, implementation, and management of computer communication systems are examined. Relevant
emerging trends are highlighted. The course is devoted to technical issues, applications, and case studies covering
telecommunication systems used in business. Typically offered Fall.

- General Elective - Credit Hours: 2.00

14 Credits

120 Total Credits

Note

◊ Completion prior to admittance to Upper Division strongly encouraged
*UC* Fulfills University Core requirement
CC Critical Course to satisfy MAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese,
Russian, Spanish

Critical Course

The ◊ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a
particular major.

Industrial Management/Manufacturing and Service Operations,
BSIM

About the Program
Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.

Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.

Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).

Industrial Management Website

Degree Requirements and Supplemental Information

The full Program Requirements for Industrial Management - Manufacturing and Service Operations include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM
Code: IMMS
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum

Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
  - Students are responsible for consulting their advisor about re-take options available to them.
  - Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

Required Major Upper Division Courses (33 credits)
OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 30600 - Management Science

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.
MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

ECON 41900 - Managerial Economics

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

Major Selectives (15 credits)
Complete the following courses (9 credits)

**MGMT 40500 - Six Sigma And Quality Management**

Credit Hours: 3.00. The course is an undergraduate elective offered as part of the Center for Manufacturing Management Enterprises (CMME) quality initiatives. Provides an overview of various tools and methods for total quality management. Typically offered Fall.

**MGMT 45200 - Manufacturing Strategy And Process Innovation**

Credit Hours: 3.00. This course examines the management challenges posed by the growth in worldwide manufacturing capabilities, markets, and competition and by rapid advances in technology and the concomitant decline in product life cycles. The manufacturing function is considered within a broader context encompassing design, engineering, purchasing, marketing, and customer service in an effort to assess the degree to which existing management structures successfully meet the challenges arising from the changing manufacturing environment. Typically offered Fall Spring.

**MGMT 46200 - Advanced Manufacturing Planning And Control Systems**

Credit Hours: 3.00. An intensive individual computer lab supplements lectures examining the role of computerized information and control systems in manufacturing. An elaborate series of case studies, enlivened by advanced computer simulations, bring together production planning, master scheduling, materials planning, short-range capacity planning, production floor execution, and quality control. Students plan and execute the production and purchasing of all parts, aided by an integrated MRP/capacity planning/shop-floor control system built into the computer simulation. Typically offered Fall.

Complete two of the following courses (6 credits)

**MFET 40000 - Computer Integrated Manufacturing**

Credit Hours: 3.00. This course will study the technology associated with computer integrated manufacturing (CIM). Conventional manufacturing technologies and methods will be introduced, followed by computer automation and CIM. The course will include computer-aided design (CAD), automated manufacturing processes, integrated manufacturing processes, integrated manufacturing systems, and other related topics. Does not carry credit toward graduation in MET/CIMT. Typically offered Spring Fall Summer.

**MGMT 54400 - Database Management Systems**

Credit Hours: 3.00. Covers the theory and practice of database design and usage. Students will learn the importance of data modeling concepts and how to use these effectively and how to plan and design a database, including issues such as data security


and control. The following course is recommended: MGMT 29000 Programming for Business Applications or CS 15900 or CS 17700 or CNIT 17500, all with a C- or higher. Typically offered Fall Spring.

**MA 26500 - Linear Algebra**

Credit Hours: 3.00. Introduction to linear algebra. Systems of linear equations, matrix algebra, vector spaces, determinants, eigenvalues and eigenvectors, diagonalization of matrices, applications. Not open to students with credit in MA 26200, 27200, 35000 or MA 35100. Typically offered Fall Spring Summer.

**MGMT 54500 - Systems Development**

Credit Hours: 3.00. Focuses on information systems development theories, practices, and tools for rapid adaptation and management of leading-edge as well as emerging computing paradigms. The following courses are recommended: MGMT 38200, with a C- or higher; and MGMT 29000 Programming for Business Applications or CS 15900 or CS 17700 or CNIT 17500, all with a minimum grade of C-. Permission of department required. Typically offered Spring.

Other Departmental/Program Course Requirements (63- 66 credits)

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

**ECON 25200 - Macroeconomics**
Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

ENGL 42100 - Technical Writing

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis, data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.

MA 26100 - Multivariate Calculus

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00

PSY 12000 - Elementary Psychology
Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology
- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00

Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

**CHM 11500 - General Chemistry**

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases, liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL:IPS 1721 General Chemistry I w/lab

**CHM 11600 - General Chemistry**

Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

**PHYS 17200 - Modern Mechanics**

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I
**PHYS 21800 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 21900 - General Physics II**

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 22000 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

**PHYS 22100 - General Physics**

Credit Hours: 4.00. Electricity, light, and modern physics, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1752 Algebra-based Physics II

**PHYS 24100 - Electricity And Optics**

Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.

**Management Admissions Index (MAI) Core**

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and
research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3)
understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

Electives (6-9 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities

≈ Also counts for UC Science Technology & Society

≥ Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.
AGEC 45000 - International Agricultural Trade

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

ANTH 34000 - Global Perspectives On Health

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource-poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

ANTH 34100 - Culture And Personality

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

CLCS 18100 - Classical World Civilizations

Credit Hours: 3.00. Course introduces students to "Classical" civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

CLCS 38000 - Alexander The Great and Hellenistic World

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

CLCS 48000 - Potters And Society In Antiquity
Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

**COM 22400 - Communicating In The Global Workplace**

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

**COM 30300 - Intercultural Communication**

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

**FNR 23000 - The World's Forests And Society**

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

**HIST 10300 - Introduction To The Medieval World**

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

**HIST 10400 - Introduction To The Modern World**

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.
HIST 10500 - Survey Of Global History

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

HIST 32900 - History Of Women In Modern Europe

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

HIST 34400 - History Of Modern Japan
Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

**HIST 39200 - Caribbean History And Culture**

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

**HIST 34000 - Modern China**

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

**SOC 33900 - Introduction To The Sociology Of Developing Nations**

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

**PHIL 11400 - Global Moral Issues**

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

**PHIL 23000 - Religions Of The East**

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.
PHIL 23100 - Religions Of The West

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

POL 13000 - Introduction To International Relations

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

POL 23700 - Modern Weapons And International Relations

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

POL 34800 - East Asian Politics

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

POL 40300 - Field Experience In Political Science

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.
You must be in Upper Division to take these classes.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**Program Requirements**

**Fall 1st Year**

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or
departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

- CHM or PHYS (CC) - Credit Hours: 4.00

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

15-16 Credits
Spring 1st Year

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS (CC) - Credit Hours: 4.00
- UC Humanities - Credit Hours: 3.00

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

Fall 2nd Year

MGMT 20000 - Introductory Accounting
Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- UC Science, Tech & Society - Credit Hours: 3.00

16 Credits

**Spring 2nd Year**

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production
management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer.

CCN: IPO 1802 Accounting II

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer.

CTL: ISH 1041 Macroeconomics

- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given
business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

- Required IMMS Course - Credit Hours: 3.00

15 Credits

Spring 3rd Year

- International Elective - Credit Hours: 3.00

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

**MGMT 40500 - Six Sigma And Quality Management**

Credit Hours: 3.00. The course is an undergraduate elective offered as part of the Center for Manufacturing Management Enterprises (CMME) quality initiatives. Provides an overview of various tools and methods for total quality management. Typically offered Fall Spring.

15 Credits
Fall 4th Year

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 45200 - Manufacturing Strategy And Process Innovation**

Credit Hours: 3.00. This course examines the management challenges posed by the growth in worldwide manufacturing capabilities, markets, and competition and by rapid advances in technology and the concomitant decline in product life cycles. The manufacturing function is considered within a broader context encompassing design, engineering, purchasing, marketing, and customer service in an effort to assess the degree to which existing management structures successfully meet the challenges arising from the changing manufacturing environment. Typically offered Fall Spring.

- General Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year

**MGMT 44428 - Human Resources Management**
Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

MGMT 46200 - Advanced Manufacturing Planning And Control Systems

Credit Hours: 3.00. An intensive individual computer lab supplements lectures examining the role of computerized information and control systems in manufacturing. An elaborate series of case studies, enlivened by advanced computer simulations, bring together production planning, master scheduling, materials planning, short-range capacity planning, production floor execution, and quality control. Students plan and execute the production and purchasing of all parts, aided by an integrated MRP/capacity planning/shop-floor control system built into the computer simulation. Typically offered Fall.

- Required IMMS Course - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

120 Total Credits

Note

◊ Completion prior to admittance to Upper Division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion

Foreign Language Courses
Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Industrial Management/Operations & Supply Chain Management, BSIM

About the Program

Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.

Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.

Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).

Industrial Management Website

Degree Requirements and Supplemental Information

The full Program Requirements for Industrial Management-Operations & Supply Chain Management include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM
Code: OSCM
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum
Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- Students are responsible for consulting their advisor about re-take options available to them.
- Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

Required Major Upper Division Courses (33 credits)

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making.
Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**
Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**Major Selectives (15 credits)**

**Complete the following courses (6 credits)**

**MGMT 46300 - Supply Chain Analytics**

Credit Hours: 3.00. Supply Chain Analytics focuses on data-driven and rigorous decision making in supply chain management. It is a complete problem solving and decision making process, and integrates a broad set of analytical methodologies that enable the creation of business value. MGMT 30600 is highly recommended but not required. Basic Calculus, Statistics, and Excel literacy are required. Typically offered Fall Spring Summer.

**MGMT 46400 - Logistics: Concepts And Models**

Credit Hours: 3.00. Studies the role of transportation and distribution channel, and the relations with other supply chain supply activity such as inventory control. Topics include forecasting, logistics system, facility location, distribution strategy, inventory control, supply chain contract, and so on. Typically offered Fall.

**Complete 3 of the following courses (9 credits)**

**MGMT 40500 - Six Sigma And Quality Management**

Credit Hours: 3.00. The course is an undergraduate elective offered as part of the Center for Manufacturing Management Enterprises (CMME) quality initiatives. Provides an overview of various tools and methods for total quality management. Typically offered Fall Spring.
MGMT 45200 - Manufacturing Strategy And Process Innovation

Credit Hours: 3.00. This course examines the management challenges posed by the growth in worldwide manufacturing capabilities, markets, and competition and by rapid advances in technology and the concomitant decline in product life cycles. The manufacturing function is considered within a broader context encompassing design, engineering, purchasing, marketing, and customer service in an effort to assess the degree to which existing management structures successfully meet the challenges arising from the changing manufacturing environment. Typically offered Fall Spring.

MGMT 46200 - Advanced Manufacturing Planning And Control Systems

Credit Hours: 3.00. An intensive individual computer lab supplements lectures examining the role of computerized information and control systems in manufacturing. An elaborate series of case studies, enlivened by advanced computer simulations, bring together production planning, master scheduling, materials planning, short-range capacity planning, production floor execution, and quality control. Students plan and execute the production and purchasing of all parts, aided by an integrated MRP/capacity planning/shop-floor control system built into the computer simulation. Typically offered Fall.

MGMT 56200 - Project Management

Credit Hours: 2.00. Emphasizes the use of PC-based project management software and its applications, particularly in manufacturing organizations and especially new product development projects. Extensive use is made of several case studies to illustrate the planning and monitoring of a project. Class is held in a computer lab. Typically offered Fall Spring.

MGMT 49000 - Problems In Industrial Management

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.

MA 26500 - Linear Algebra

Credit Hours: 3.00. Introduction to linear algebra. Systems of linear equations, matrix algebra, vector spaces, determinants, eigenvalues and eigenvectors, diagonalization of matrices, applications. Not open to students with credit in MA 26200, 27200, 35000 or MA 35100. Typically offered Fall Spring Summer.

Other Departmental/Program Course Requirements (63- 66 credits)

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting
executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**ENGL 42100 - Technical Writing**

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis, data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals.
Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00

Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

CHM 11500 - General Chemistry
CHM 11500 - General Chemistry

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases, liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL:IPS 1721 General Chemistry I w/lab

CHM 11600 - General Chemistry

Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

PHYS 17200 - Modern Mechanics

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I

PHYS 21800 - General Physics

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

PHYS 21900 - General Physics II

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

PHYS 22000 - General Physics

Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

PHYS 22100 - General Physics

Credit Hours: 4.00. Electricity, light, and modern physics, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1752 Algebra-based Physics II
PHYS 24100 - Electricity And Optics

Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.

Management Admissions Index (MAI) Core*

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I
MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

Electives (6-9 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.
± Also counts for UC Humanities
≈ Also counts for UC Science Technology & Society
≥ Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**
Credit Hours: 3.00. Course introduces students to "Classical" civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

**CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity**

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

**CLCS 38000 - Alexander The Great and Hellenistic World**

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

**CLCS 48000 - Potters And Society In Antiquity**

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

**COM 22400 - Communicating In The Global Workplace**

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

**COM 30300 - Intercultural Communication**

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.
FNR 23000 - The World's Forests And Society

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

HIST 10300 - Introduction To The Medieval World

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

HIST 10400 - Introduction To The Modern World

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

HIST 10500 - Survey Of Global History

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne
Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

**HIST 32900 - History Of Women In Modern Europe**

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

**HIST 34300 - Traditional Japan**

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

**HIST 34400 - History Of Modern Japan**

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

**HIST 39200 - Caribbean History And Culture**

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

**HIST 34000 - Modern China**

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.
SOC 33900 - Introduction To The Sociology Of Developing Nations

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

PHIL 11400 - Global Moral Issues

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

PHIL 23000 - Religions Of The East

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

PHIL 23100 - Religions Of The West

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

POL 13000 - Introduction To International Relations

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations.
Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

**POL 23700 - Modern Weapons And International Relations**

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

**POL 34800 - East Asian Politics**

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

**POL 40300 - Field Experience In Political Science**

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of
international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**Program Requirements**

**Fall 1st Year**

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**
Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

- CHM or PHYS (CC) - Credit Hours: 4.00

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

15-16 Credits

**Spring 1st Year**

**MA 16200 - Plane Analytic Geometry And Calculus II**

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

**MA 16600 - Analytic Geometry And Calculus II**

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from
interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS (CC) - Credit Hours: 4.00
- UC Humanities - Credit Hours: 3.00

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

**Fall 2nd Year**

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

**CS 23500 - Introduction To Organizational Computing**
Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- UC Science, Tech & Society - Credit Hours: 3.00

16 Credits

Spring 2nd Year

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN: IPO 1802 Accounting II

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

ENGL 42000 - Business Writing
Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 46400 - Logistics: Concepts And Models

Credit Hours: 3.00. Studies the role of transportation and distribution channel, and the relations with other supply chain supply activity such as inventory control. Topics include forecasting, logistics system, facility location, distribution strategy, inventory control, supply chain contract, and so on. Typically offered Fall.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

15 Credits

Spring 3rd Year

- International Elective - Credit Hours: 3.00

MGMT 30600 - Management Science

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making.
Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 46300 - Supply Chain Analytics**

Credit Hours: 3.00. Supply Chain Analytics focuses on data-driven and rigorous decision making in supply chain management. It is a complete problem solving and decision making process, and integrates a broad set of analytical methodologies that enable the creation of business value. MGMT 30600 is highly recommended but not required. Basic Calculus, Statistics, and Excel literacy are required. Typically offered Fall Spring Summer.

15 Credits

**Fall 4th Year**

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**
Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

- Required OSCM Course - Credit Hours: 3.00
- Required OSCM Course - Credit Hours: 3.00

15 Credits

**Spring 4th Year**

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

- Required OSCM Course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

120 Total Credits
Note

◊ Completion prior to admittance to Upper Division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ◊ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Industrial Management/Quantitative Methods, BSIM

About the Program

Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.

Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.

Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).
Degree Requirements and Supplemental Information

The full Program Requirements for Industrial Management - Quantitative Methods include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM
Code: IMQM
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum

Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- Students are responsible for consulting their advisor about re-take options available to them.
- Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

Required Major Upper Division Courses (33 credits)

OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include
descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 30600 - Management Science

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic
decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**Major Selectives (16 credits)**

**MA 26200 - Linear Algebra And Differential Equations**

Credit Hours: 4.00. Linear algebra, elements of differential equations. Not open to students with credit in MA 26500 or MA 26600. Typically offered Fall Spring Summer.

**IE 33600 - Operations Research - Stochastic Models**

Credit Hours: 3.00. Introduction to probabilistic models in operations research. Emphasis on Markov chains, Poisson processes, and their application to queueing systems. Typically offered Fall Spring.

**IE 53600 - Stochastic Models In Operations Research I**
Credit Hours: 3.00. An introduction to techniques for modeling random processes used in operations research. Markov chains, continuous time Markov processes, Markovian queues, reliability and inventory models. Typically offered Spring.

**IE 53700 - Discrete Optimization Models And Algorithms**

Credit Hours: 3.00. An introduction to classic models and algorithms for discrete optimization. Basic theory and computational strategies for exact and heuristic solution of integer, combinatorial, and network problems in the context of classic models. Typically offered Spring.

**STAT 51200 - Applied Regression Analysis**

Credit Hours: 3.00. Inference in simple and multiple linear regression, residual analysis, transformations, polynomial regression, model building with real data, nonlinear regression. One-way and two-way analysis of variance, multiple comparisons, fixed and random factors, analysis of covariance. Use of existing statistical computer programs. Prerequisite: Coursework in Statistical Methods with a calculus prerequisite. Typically offered Fall Spring Summer.

**Other Departmental/Program Course Requirements (63- 66 credits)**

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.
ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

ENGL 42100 - Technical Writing

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis, data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.

MA 26100 - Multivariate Calculus

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information— for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00
PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00

Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

CHM 11500 - General Chemistry

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases, liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL:IPS 1721 General Chemistry I w/lab

CHM 11600 - General Chemistry

Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

PHYS 17200 - Modern Mechanics

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in
mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I

**PHYS 21800 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 21900 - General Physics II**

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 22000 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

**PHYS 22100 - General Physics**

Credit Hours: 4.00. Electricity, light, and modern physics, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1752 Algebra-based Physics II

**PHYS 24100 - Electricity And Optics**

Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.

Management Admissions Index (MAI) Core*

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**
Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

**MA 16200 - Plane Analytic Geometry And Calculus II**

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

**MA 16600 - Analytic Geometry And Calculus II**

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the
statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

Electives (5-8 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities
≈ Also counts for UC Science Technology & Society
≥ Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the
greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**

Credit Hours: 3.00. Course introduces students to “Classical” civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

**CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity**

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

**CLCS 38000 - Alexander The Great and Hellenistic World**

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.
CLCS 48000 - Potters And Society In Antiquity

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

COM 22400 - Communicating In The Global Workplace

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

COM 30300 - Intercultural Communication

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

CSR 33200 - Cross-Cultural Marketing And International Retailing

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

FNR 23000 - The World's Forests And Society

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

HIST 10300 - Introduction To The Medieval World

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

HIST 10400 - Introduction To The Modern World

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and
the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

HIST 10500 - Survey Of Global History

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

HIST 32900 - History Of Women In Modern Europe

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.
HIST 34400 - History Of Modern Japan

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

HIST 39200 - Caribbean History And Culture

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

HIST 34000 - Modern China

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

HIST 40300 - Europe In The Reformation

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

SOC 33900 - Introduction To The Sociology Of Developing Nations

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

PHIL 11400 - Global Moral Issues

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

PHIL 23000 - Religions Of The East
Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

**PHIL 23100 - Religions Of The West**

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

**POL 13000 - Introduction To International Relations**

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

**POL 14100 - Governments Of The World**

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

**POL 23500 - International Relations Among Rich And Poor Nations**

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

**POL 23700 - Modern Weapons And International Relations**

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

**POL 34800 - East Asian Politics**

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

**POL 40300 - Field Experience In Political Science**
Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**Program Requirements**

**Fall 1st Year**
MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

- CHM or PHYS (CC) - Credit Hours: 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or
senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

15-16 Credits

Spring 1st Year

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS (CC) - Credit Hours: 4.00
- UC Humanities - Credit Hours: 3.00

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

Fall 2nd Year
MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL: ISH 1042 Microeconomics

MA 26100 - Multivariate Calculus

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- UC Science, Tech & Society - Credit Hours: 3.00

16 Credits

Spring 2nd Year

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

MGMT 20100 - Management Accounting I
Credit Hours: 3.00. An introduction to management's internal use of accounting information— for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer.
CCN: IPO 1802 Accounting II

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer.

CTL: ISH 1041 Macroeconomics
- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

**Fall 3rd Year**

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers
and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**MA 26200 - Linear Algebra And Differential Equations**

Credit Hours: 4.00. Linear algebra, elements of differential equations. Not open to students with credit in MA 26500 or MA 26600. Typically offered Fall Spring Summer.

16 Credits

**Spring 3rd Year**

- International Elective - Credit Hours: 3.00

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**IE 33600 - Operations Research - Stochastic Models**

Credit Hours: 3.00. Introduction to probabilistic models in operations research. Emphasis on Markov chains, Poisson processes, and their application to queueing systems. Typically offered Fall Spring.
15 Credits

Fall 4th Year

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

IE 53600 - Stochastic Models In Operations Research I

Credit Hours: 3.00. An introduction to techniques for modeling random processes used in operations research. Markov chains, continuous time Markov processes, Markovian queues, reliability and inventory models. Typically offered Spring.

- General Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year
MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

IE 53700 - Discrete Optimization Models And Algorithms

Credit Hours: 3.00. An introduction to classic models and algorithms for discrete optimization. Basic theory and computational strategies for exact and heuristic solution of integer, combinational, and network problems in the context of classic models. Typically offered Spring.

STAT 51200 - Applied Regression Analysis

Credit Hours: 3.00. Inference in simple and multiple linear regression, residual analysis, transformations, polynomial regression, model building with real data, nonlinear regression. One-way and two-way analysis of variance, multiple comparisons, fixed and random factors, analysis of covariance. Use of existing statistical computer programs. Prerequisite: Coursework in Statistical Methods with a calculus prerequisite. Typically offered Fall Spring Summer.

14 Credits

120 Total Credits

Note

◊ Completion prior to admittance to Upper Division strongly encouraged

*UC* Fulfills University Core requirement
Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Industrial Management/Science, BSIM

About the Program

Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.

Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.

Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).

Industrial Management Website

Degree Requirements and Supplemental Information
The full Program Requirements for Industrial Management-Science include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM
Code: IMSC
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum

Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- School of Management, MAI, and concentration courses with grades of "F" cannot be replaced by a transfer course.
- Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

Required Major Upper Division Courses (33 credits)

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**
Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**
Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**Major Selectives* - Complete 1 of the following Science Concentrations (15-21 credits)**

- Biology - Credit Hours: 16.00 - 21.00
- Chemistry - Credit Hours: 16.00
- Earth, Atmospheric & Planetary Sciences - Credit Hours: 17.00
- Math - Credit Hours: 15.00
- Physics - Credit Hours: 15.00
- Statistics - Credit Hours: 15.00

**Other Departmental/Program Course Requirements (63- 66 credits)**

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

**COM 11400 - Fundamentals Of Speech Communication**
Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**ENGL 42100 - Technical Writing**

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis, data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production
management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology
- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00

Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

CHM 11500 - General Chemistry

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases, liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL:IPS 1721 General Chemistry I w/lab
CHM 11600 - General Chemistry

Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

PHYS 17200 - Modern Mechanics

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I

PHYS 21800 - General Physics

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

PHYS 21900 - General Physics II

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

PHYS 22000 - General Physics

Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

PHYS 22100 - General Physics

Credit Hours: 4.00. Electricity, light, and modern physics, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1752 Algebra-based Physics II

PHYS 24100 - Electricity And Optics

Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.
Management Admissions Index (MAI) Core*

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

**MA 16200 - Plane Analytic Geometry And Calculus II**

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series,
conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

Electives (0-9 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
- Written Communication
- Oral Communication
- Quantitative Reasoning
- For a complete listing of course selectives, visit the Provost's Website or click here.

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities

≈ Also counts for UC Science Technology & Society

≥ Check myPurdue for course pre-requisites
**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**

Credit Hours: 3.00. Course introduces students to "Classical" civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.
CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

CLCS 38000 - Alexander The Great and Hellenistic World

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

CLCS 48000 - Potters And Society In Antiquity

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

COM 22400 - Communicating In The Global Workplace

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

COM 30300 - Intercultural Communication

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

CSR 33200 - Cross-Cultural Marketing And International Retailing

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

FNR 23000 - The World's Forests And Society
Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

HIST 10300 - Introduction To The Medieval World

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

HIST 10400 - Introduction To The Modern World

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

HIST 10500 - Survey Of Global History

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.
HIST 32900 - History Of Women In Modern Europe
Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan
Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

HIST 34400 - History Of Modern Japan
Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

HIST 39200 - Caribbean History And Culture
Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

HIST 34000 - Modern China
Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

HIST 40300 - Europe In The Reformation
Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

SOC 33900 - Introduction To The Sociology Of Developing Nations
Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

**PHIL 11400 - Global Moral Issues**

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

**PHIL 23000 - Religions Of The East**

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

**PHIL 23100 - Religions Of The West**

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

**POL 13000 - Introduction To International Relations**

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

**POL 14100 - Governments Of The World**

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

**POL 23500 - International Relations Among Rich And Poor Nations**

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.
**POL 23700 - Modern Weapons And International Relations**

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

**POL 34800 - East Asian Politics**

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

**POL 40300 - Field Experience In Political Science**

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.
MGMT 45900 - International Management

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

Program Requirements

Fall 1st Year

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

• CHM or PHYS - Credit Hours: 4.00 (CC)
PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

15-16 Credits

Spring 1st Year

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS - Credit Hours: 4.00 (CC)
- UC Humanities - Credit Hours: 3.00
MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

Fall 2nd Year

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL: ISH 1042 Microeconomics

MA 26100 - Multivariate Calculus

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- UC Science, Tech & Society - Credit Hours: 3.00
16 Credits

Spring 2nd Year

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer.

CCN: IPO 1802 Accounting II

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer.

CTL:ISH 1041 Macroeconomics

- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**
Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

- Required Science Minor Course - Credit Hours: 3.00

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**15 Credits**

**Spring 3rd Year**

- International Elective - Credit Hours: 3.00

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**
Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

- Required Science Minor Course - Credit Hours: 3.00

15 Credits

Fall 4th Year

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

- Required Science Minor Course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year
MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

- Required Science Minor Course - Credit Hours: 3.00
- Required Science Minor Course - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

120 Total Credits

Note

◊ Completion prior to admittance to Upper Division strongly encouraged
*UC* Fulfills University Core requirement
CC Critical Course to satisfy MAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish
Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Industrial Management/Science, Technology, Engineering, and Math, BSIM

About the Program

Industrial Management students combine rigorous courses from science, technology, engineering and math (STEM) with the Krannert management core to produce strong analytic and technical skills with a business mindset. A dedication to life-long learning -- new processes, new technologies, new ways of managing talent and resources -- is a hallmark of an Industrial Management major. Specialties range from supply chain management to financial engineering to science.

Industrial Management students are multi-talented. With a specialized business focus, students can forecast company growth and talk numbers in the board room as well as solve logistical problems in business operations. This flexibility has allowed Industrial Management majors to enjoy faster upward mobility within organizations than most other business majors.

Many Industrial Management graduates begin their careers in corporate leadership development rotational programs, where they gain additional business and technical knowledge. Others start their careers as supply chain analysts, strategic sourcing analysts or software business analysts.

Students may choose from the following concentrations: Analytical Consulting, Computer Science, Economics, Engineering, Financial Engineering, Management Information Systems, Manufacturing and Service Operations Management, Operations & Supply Chain Management, Quantitative Methods, Statistics and Science (Biology, Chemistry, Math, Physics, and Earth, Atmospheric and Planetary Sciences).

Industrial Management Website

Degree Requirements and Supplemental Information

The full Program Requirements for Industrial Management - Science, Technology, Engineering, and Math include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BSIM
Code: IMST
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum

Management Admissions Index Core (MAI)
To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 2.65 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.

Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.

Requirements for Upper Division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/im/im-req-upper-div.asp

University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.

Students are responsible for consulting their advisor about re-take options available to them.

Complete 7-8 hours of Chemistry and/or Physics from below list with a C- or higher prior to admission to Upper Division Industrial Management.

Required Major Upper Division Courses (33 credits)

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.
MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

ECON 41900 - Managerial Economics

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics
include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**Major Selectives* - Complete 15 credit hours from the following courses (15 credits)**

**AAE 20300 - Aeromechanics I**

Credit Hours: 3.00. Fundamental concepts and principles of bodies in motion, with applications to aeronautical and astronautical problems. Subjects covered include rectilinear motion, curvilinear motion, rotation, and plane motion. The static equilibrium and quasistatic equilibrium situations are treated as a part of motion in which the acceleration is zero. Problems involving impact, separation, work, and energy are considered. Typically offered Fall Spring.

**AAE 25100 - Introduction To Aerospace Design**

Credit Hours: 3.00. The role of design in aerospace engineering. Introduction to aerodynamics, performance, propulsion, structures, stability and control, and weights. Layout and general arrangement of aerospace vehicles. Design concept generation and selection. Computational methods for design. Trade studies and graphical optimization. Conceptual design exercise involving aircraft, spacecraft, or both. Technical presentations and communication for aerospace engineering. Typically offered Fall Spring.

**BME 20100 - Biomolecules: Structure, Function, And Engineering Applications**

Credit Hours: 3.00. Classes of molecules (biomolecules) such as sugars, lipids, proteins, and nucleic acids that form the cellular components of living organisms. Explores the chemistry behind the structure and function of these important classes of biological molecules. Hydrogen-bonding, hydrophobic forces, electrostatic interactions along with other weak interactions discussed with reference to their importance in biomolecular systems in an engineering context. Typically offered Fall.

**CE 20300 - Principles And Practice Of Geomatics**

Credit Hours: 4.00. Basic surveying measurements and computations for engineering project control, mapping, and construction layout; theory of observational errors and error propagation; fundamental concepts of horizontal and vertical control systems; use
of topographic maps and plan-profile sheets; computation of horizontal and vertical curves; introduction to computer tools used in Civil Engineering. Typically offered Fall Spring.

CE 29700 - Basic Mechanics I (Statics)


CEM 20100 - Life Cycle Engineering And Management Of Constructed Facilities

Credit Hours: 3.00. This course introduces concepts relating to the engineering and construction of facilities throughout their life cycle. Topics that will be explored include the nature of the construction industry, construction contracts, legal and management organization of construction companies, basics of the design and construction process, as well as an introduction to the role of estimating and project scheduling. Cost, time, safety and quality concepts of construction management relationships will also be discussed. Prerequisite: First Year Engineering Curriculum must be completed. Typically offered Fall Spring.

CS 15900 - Programming Applications For Engineers

Credit Hours: 3.00. Fundamental principles, concepts, and methods of programming (C and MATLAB), with emphasis on applications in the physical sciences and engineering. Basic problem solving and programming techniques; fundamental algorithms and data structures; and use of programming logic in solving engineering problems. Students are expected to complete assignments in a collaborative learning environment. Typically offered Summer Fall Spring.

ECE 20100 - Linear Circuit Analysis I

Credit Hours: 3.00. Volt-ampere characteristics for circuit elements; independent and dependent sources; Kirchhoff's laws and circuit equations. Source transformations; Thevenin's and Norton's theorems; superposition, step response of 1st order (RC, RL) and 2nd order (RLC) circuits. Phasor analysis, impedance calculations, and computation of sinusoidal steady state responses. Instantaneous and average power, complex power, power factor correction, and maximum power transfer. Instantaneous and average power. Typically offered Fall Spring Summer.

ENGR 13100 - Transforming Ideas To Innovation I

Credit Hours: 2.00. A partnership between Schools and Programs within the College of Engineering, introduces students to the engineering professions using multidisciplinary, societally relevant content. Developing engineering approaches to systems, generating and exploring creative ideas, and use of quantitative methods to support design decisions. Explicit model-development activities (engineering eliciting activities, EEAs) engage students in innovative thinking across the engineering disciplines at Purdue. Experiencing the process of design and analysis in engineering including how to work effectively in teams. Developing skills in project management, engineering fundamentals, oral and graphical communication, logical thinking, and modern engineering tools (e.g., Excel and MATLAB). Typically offered Fall Spring Summer.
ENGR 13200 - Transforming Ideas To Innovation II

Credit Hours: 2.00. A partnership between Schools and Programs within the College of Engineering continues building on the foundation developed in ENGR 13100. Students take a more in depth and holistic approach to integrating multiple disciplines perspectives while constructing innovative engineering solutions to open-ended problems. Extending skills in project management engineering fundamentals, oral and graphical communication, logical thinking, team work, and modern engineering tools (e.g., Excel and MATLAB). Typically offered Fall Spring Summer.

IE 23000 - Probability And Statistics In Engineering I


IE 34300 - Engineering Economics

Credit Hours: 3.00. Cost measurement and control in engineering studies. Basic accounting concepts, income measurement, and valuation problems. Manufacturing cost control and standard cost systems. Capital investment, engineering alternatives, and equipment replacement studies. Not open to students with credit in CE 39400. Typically offered Summer Fall Spring.

MA 26500 - Linear Algebra

Credit Hours: 3.00. Introduction to linear algebra. Systems of linear equations, matrix algebra, vector spaces, determinants, eigenvalues and eigenvectors, diagonalization of matrices, applications. Not open to students with credit in MA 26200, 27200, 35000 or MA 35100. Typically offered Fall Spring Summer.

ME 20000 - Thermodynamics I

Credit Hours: 3.00. First and second laws of thermodynamics, entropy, reversible and irreversible processes, properties of pure substances. Application to engineering problems. Typically offered Spring Summer Fall.

ME 27000 - Basic Mechanics I

Credit Hours: 3.00. Vector operations, forces and couples, free body diagrams, equilibrium of a particle and of rigid bodies. Friction. Distributed forces. Centers of gravity and centroids. Applications from structural and machine elements, such as bars, trusses, and friction devices. Kinematics and equations of motion of a particle for rectilinear and curvilinear motion. Typically offered Fall Spring Summer.
MSE 23000 - Structure And Properties Of Materials

Credit Hours: 3.00. The relationship between the structure of materials and the resulting mechanical, thermal, electrical, and optical properties. Atomic structure, bonding, atomic arrangement; crystal symmetry, crystal structure, habit, lattices, defects, and the use of X-ray diffraction. Phase equilibria and microstructural development. Applications to design. Typically offered Fall Spring.

MSE 23500 - Materials Properties Laboratory

Credit Hours: 3.00. Laboratory experiments involving usage of standard equipment in the measurement of mechanical, microstructural, thermal, electrical, and optical properties. Introduction to computer aided data analysis. Experiments are carried out with metal, ceramic, and polymeric materials to illustrate property-structure-processing relationships. Typically offered Fall.

NUCL 20000 - Introduction to Nuclear Engineering

Credit Hours: 3.00. A course designed to acquaint students with the field of nuclear engineering and design. Concepts of fission, fusion, radioactivity, and neutron physics are introduced. Modern applications of nuclear technology, including nuclear medicine, food preservation, space reactors and propulsion. Typically offered Fall Spring.

PHYS 24100 - Electricity And Optics

Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.

Other Departmental/Program Course Requirements (63- 66 credits)

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative
and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**ENGL 42100 - Technical Writing**

Credit Hours: 3.00. Workplace writing in networked environments for technical contexts. Emphasizes context and user analysis, data analysis/display, project planning, document management, usability, ethics, research, team writing. Typical genres include technical reports, memos, documentation, Web sites. Typically offered Fall Spring Summer.

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information—decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II
STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 4.00
- Chemistry or Physics (CC *UC* satisfies Science for core) - Credit Hours: 3.00 - 4.00

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- UC Human Cultures (Humanities) *UC* - Credit Hours: 3.00
- UC Science, Technology & Society *UC* - Credit Hours: 3.00

Chemistry or Physics (CC) (7-8 hours must be completed prior to admission to Upper Division)

Equivalent courses, credit given for only one: PHYS 17200, 21800 & 22000

CHM 11500 - General Chemistry

Credit Hours: 4.00. Stoichiometry; atomic structure; periodic properties; ionic and covalent bonding; molecular geometry; gases, liquids, and solids; crystal structure; thermochemistry; descriptive chemistry of metals and non-metals. Required of students majoring in science and students in engineering who are not in CHM 12300. One year of high school chemistry or one semester of college chemistry required. Typically offered Fall Spring Summer. CTL:IPS 1721 General Chemistry I w/lab

CHM 11600 - General Chemistry
Credit Hours: 4.00. A continuation of CHM 11500. Solutions; quantitative equilibria in aqueous solution; introductory thermodynamics; oxidation-reduction and electrochemistry; chemical kinetics; qualitative analysis; further descriptive chemistry of metals and nonmetals. Typically offered Fall Spring Summer. CTL:IPS 1722 General Chemistry II w/lab

**PHYS 17200 - Modern Mechanics**

Credit Hours: 4.00. Introductory calculus-based physics course using fundamental interactions between atoms to describe Newtonian mechanics, conservation laws, energy quantization, entropy, the kinetic theory of gases, and related topics in mechanics and thermodynamics. Emphasis is on using only a few fundamental principles to describe physical phenomena extending from nuclei to galaxies. 3-D graphical simulations and numerical problem solving by computer are employed by the student from the very beginning. Typically offered Summer Fall Spring. CTL:IPS 1753 Calculus-based Physics I

**PHYS 21800 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 21900 - General Physics II**

Credit Hours: 4.00. Electricity, light, and modern physics, primarily for technology students. Typically offered Summer Fall Spring.

**PHYS 22000 - General Physics**

Credit Hours: 4.00. Mechanics, heat, and sound, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1751 Algebra-based Physics I

**PHYS 22100 - General Physics**

Credit Hours: 4.00. Electricity, light, and modern physics, for students not specializing in physics. Typically offered Fall Spring Summer. CTL:IPS 1752 Algebra-based Physics II

**PHYS 24100 - Electricity And Optics**

Credit Hours: 3.00. Electrostatics, current electricity, electromagnetism, magnetic properties of matter. Electromagnetic waves, geometrical and physical optics. Typically offered Summer Fall Spring.

**Management Admissions Index (MAI) Core**
ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring. CTL:ISH 1042 Microeconomics

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

MA 16100 - Plane Analytic Geometry And Calculus I

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

MA 16500 - Analytic Geometry And Calculus I

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100 , or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

MA 16200 - Plane Analytic Geometry And Calculus II

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.
MA 16600 - Analytic Geometry And Calculus II

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

Electives (6-9 credits)

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities

≈ Also counts for UC Science Technology & Society

≥ Check myPurdue for course pre-requisites

AGEC 25000 - Economic Geography Of World Food And Resources
Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**

Credit Hours: 3.00. Course introduces students to "Classical" civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

**CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity**
Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

**CLCS 38000 - Alexander The Great and Hellenistic World**

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

**CLCS 48000 - Potters And Society In Antiquity**

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

**COM 22400 - Communicating In The Global Workplace**

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

**COM 30300 - Intercultural Communication**

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

**FNR 23000 - The World's Forests And Society**

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.
HIST 10300 - Introduction To The Medieval World

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

HIST 10400 - Introduction To The Modern World

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

HIST 10500 - Survey Of Global History

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

HIST 32900 - History Of Women In Modern Europe
Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

**HIST 34300 - Traditional Japan**

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

**HIST 34400 - History Of Modern Japan**

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

**HIST 39200 - Caribbean History And Culture**

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

**HIST 34000 - Modern China**

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

**SOC 33900 - Introduction To The Sociology Of Developing Nations**

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.
PHIL 11400 - Global Moral Issues

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

PHIL 23000 - Religions Of The East

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

PHIL 23100 - Religions Of The West

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

POL 13000 - Introduction To International Relations

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

POL 23700 - Modern Weapons And International Relations
Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

**POL 34800 - East Asian Politics**

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

**POL 40300 - Field Experience In Political Science**

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 45900 - International Management**
Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

Program Requirements

Fall 1st Year

**MA 16100 - Plane Analytic Geometry And Calculus I**

Credit Hours: 5.00. Introduction to differential and integral calculus of one variable, with applications. Some schools or departments may allow only 4 credit hours toward graduation for this course. Designed for students who have not had at least a one-semester calculus course in high school, with a grade of "A" or "B". Not open to students with credit in MA 16500. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring Summer.

**MA 16500 - Analytic Geometry And Calculus I**

Credit Hours: 4.00. Introduction to differential and integral calculus of one variable, with applications. Conic sections. Designed for students who have had at least a one-semester calculus course in high school, with a grade of "A" or "B", but are not qualified to enter MA 16200 or MA 16600, or the advanced placement courses MA 17300 or MA 27100, or the honors calculus course MA 18100. Demonstrated competence in college algebra and trigonometry. Typically offered Fall Spring. CTL:IMA 1602 Calculus - Long I

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

- CHM or PHYS (CC) - Credit Hours: 4.00

**PSY 12000 - Elementary Psychology**
Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

15-16 Credits

**Spring 1st Year**

**MA 16200 - Plane Analytic Geometry And Calculus II**

Credit Hours: 5.00. Continuation of MA 16100. Vectors in two and three dimensions, techniques of integration, infinite series, conic sections, polar coordinates, surfaces in three dimensions. Some schools or departments may allow only 4 credit hours toward graduation for this course. Typically offered Fall Spring Summer.

**MA 16600 - Analytic Geometry And Calculus II**

Credit Hours: 4.00. Continuation of MA 16500. Vectors in two and three dimensions. Techniques of integration, infinite series, polar coordinates, surfaces in three dimensions. Not open to students with credit in MA 16200. Typically offered Fall Spring. CTL:IMA 1603 Calculus - Long II

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

- CHM or PHYS (CC) - Credit Hours: 4.00
- UC Humanities - Credit Hours: 3.00

**MGMT 29500 - Professional Career Management**
Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

15-16 Credits

Fall 2nd Year

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL: ISH 1042 Microeconomics

**MA 26100 - Multivariate Calculus**

Credit Hours: 4.00. Planes, lines, and curves in three dimensions. Differential calculus of several variables; multiple integrals. Introduction to vector calculus. Not open to students with credit in MA 17400 or MA 27100. Typically offered Fall Spring Summer.

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- UC Science, Tech & Society - Credit Hours: 3.00

16 Credits
Spring 2nd Year

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics
  - International Elective - Credit Hours: 3.00
  - General Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include
descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

- Required STEM Courses - Credit Hours: 3.00

15 Credits

**Spring 3rd Year**

- International Elective - Credit Hours: 3.00

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics
include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

- Required STEM Courses - Credit Hours: 3.00

15 Credits

Fall 4th Year

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

- Required STEM Courses - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

Spring 4th Year

**MGMT 44428 - Human Resources Management**
Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

- Required STEM Courses - Credit Hours: 3.00
- Required STEM Courses - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

120 Total Credits

**Note**

◊ Completion prior to admittance to Upper Division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

**Degree Requirements**

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion

**Foreign Language Courses**

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

**Critical Course**
The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Management, BS

About the Program

Management majors mean business. They effectively lead, coordinate and communicate innovative solutions in all aspects of an organization from operations to human resources. They are adaptable leaders with strong roots in analytics, complemented by solid communication skills that help them compete in the business world.

A multi-functional approach to coursework allows you to discover different business areas at the same time like finance, strategy, law and organizational behavior. You’ll refine your critical thinking, communication and analytical skills as you explore these different aspects of business. Students can add concentration areas to focus on specific interests.

Graduate pursue many different job opportunities. Some begin in corporate management rotational programs, as account executives or as project managers. You will find Krannert management graduates in companies like Boeing, General Motors, Amazon.com, and Target Corporation.

Degree Requirements and Supplemental Information

The full Program Requirements for Management include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BS
Code: MGMT
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum

Required Major Upper Division Courses (39 Credits)

OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

MGMT 30500 - Business Statistics
Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

MGMT 30600 - Management Science

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and
general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

- Professional Elective - Credit Hours: 3.00 *
- Professional Elective - Credit Hours: 3.00 *

Other Departmental/Program Course Requirements (56 credits)

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from
interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning
Experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020

Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- University Core: Human Cultures (Humanities) - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science, Technology & Society - Credit Hours: 3.00

Management Admissions Index (MAI) Core*

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

MA 16010 - Applied Calculus I

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of
definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

MA 16020 - Applied Calculus II

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

Electives (25 credits)

The number of general electives will vary for each student and can include AP credit, transfer credit, and/or Credit by Exam.

*Management Admissions Index (MAI) Core Requirements

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 3.00 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for upper division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/mgmt/mgmt-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- School of Management, MAI, and concentration courses with grades of "F" cannot be replaced by a transfer course.
- Previous enrollments in MA 16100, MA 16200, MA 16500, MA 16600 do not count against the retake policy for the MAI.

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology, and Society
• Written Communication
• Oral Communication
• Quantitative Reasoning
• For a complete listing of course selectives, visit the Provost's Website or click here.

General Information

• MGMT, OBHR and ECON courses numbered 30000 or higher can only be taken after being admitted to Upper Division.
• Transfer credit for upper level MGMT, OBHR and ECON courses will only be considered if taken at a 4 year AACSB accredited school, (www.aacsb.edu).
• Courses taken on approved Krannert study abroad programs may be used to satisfy degree requirements. Students participating in a Purdue approved study abroad program are registered as full-time Purdue students during their semester abroad. Schedule an appointment with your advisor to discuss study abroad opportunities.
• Minors outside of the School of Management are also available.
• Information on summer courses is available at www.purdue.edu/thinksummer.
• Refer to myPurduePlan at www.mypurdue.purdue.edu for degree requirements

Management Professional Electives

Professional Electives include the MGMT or ECON classes at the 30000 level or higher on this list by major. Up to 3 credits of EPICS courses at the 30000 level or higher may be used. 6 credits at the 30000 level or higher taken at an approved Krannert study abroad program may be used with advisor approval and used as a Professional Elective. Courses marked (**) can also be applied towards the International Elective requirements.

ECON 34000 - Intermediate Microeconomic Theory

Credit Hours: 3.00. Topics from consumer behavior and demand, decisions under uncertainty, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Typically offered Fall Spring.

ECON 35200 - Intermediate Macroeconomics

Credit Hours: 3.00. Continuation of ECON 25200. A more rigorous, general equilibrium treatment of macroeconomic theory with emphasis on the components of the model: determinants of consumption, investment, net exports and foreign exchange rates, the level of unemployment, inflation and the long-run rate of economic growth. Typically offered Fall Spring.

ECON 36000 - Econometrics

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate casual effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand
function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

ECON 36100 - Antitrust And Regulation

Credit Hours: 3.00. The course studies the influence of laws and regulations on the behavior of firms, focusing on two types of government intervention in the market: antitrust law and economic regulation. Antitrust laws define the rules by which firms must compete. Economic regulation more tightly constrains the actions of firms, requiring that they obtain approval to set prices and/or enter new markets. The focus is on current topics in both areas, including comparison of U.S. practice with that of European Union and elsewhere. Typically offered Spring.

ECON 36500 - History Of Economic Thought

Credit Hours: 3.00. The course traces the development of theories of value and economic growth from the seventeenth century to Karl Marx. Among the authors studied are the mercantilists, Hume, Smith, Ricardo, and Marx. Excerpts from the original works are read and evaluated in light of modern theory. Typically offered Spring.

ECON 36700 - Law And Economics

Credit Hours: 3.00. It has become increasingly clear to economists, legal scholars and political scientists that it is impossible to understand economic institutions without first having an understanding of the legal framework within which they operate. Similarly, it is impossible to understand the impact of law on society without first having an understanding of economic principles. This problem is further complicated by the fact that there are often ambiguities in the written law that lead to significant differences between what the law appears to say and how the law is interpreted in the courts. This course is designed to give the student an understanding of both legal and economic principles and the relationship between them. Finally, through the use of economic analysis, the student will acquire the tools to predict the likely outcomes of particular laws and how they will affect their family and business decisions. Typically offered Fall Spring Summer.

ECON 36800 - Economics And Values

Credit Hours: 3.00. Explores some specific critiques of stereotypical neoclassical economics; utilizes notions of knowledge, learning, rationality, logic, science, and scholarship that tend to complement those found in many conventional economics courses; raises questions about the roles of values in both individual decision-making and in economic thinking, as well as about the interrelation of economic concepts and issues of ethics, justice, and care at both the individual and the social level; embodies interactive, reflective learning. Typically offered Spring.

ECON 37000 - International Trade

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.
ECON 38000 - Money And Banking

Credit Hours: 3.00. The course analyzes the economics of money, monetary systems, investments, and financial intermediaries in modern industrial economies. Topics considered include the origin of money and the banking industry, financial asset markets, the role of central banks, and the effects of various monetary policies. The theory will be presented side by side with current economic and financial news, and the students will learn how to track financial and economic data via The Wall Street Journal. Typically offered Fall Spring.

ECON 38500 - Labor Economics

Credit Hours: 3.00. The purpose of this course is to introduce important topics, theories, institutions, and policy issues relating to the functioning of labor markets. Topics to be considered include labor supply decisions, investments in human capital, compensating wage differentials, labor contract theory, unions, compensation programs, signaling in labor markets, the economics of unemployment, and government employment, retirement, and workplace safety. Typically offered Fall Spring.

ECON 39000 - Junior Level Problems In Economics

Credit Hours: 1.00 to 4.00. Investigation into a specific topic area of economics. Permission of instructor required. Typically offered Fall Spring Summer.

- ECON 39000 - Junior Level Problems In Economics Economics of the European Union

ECON 39040 - Economics Internship

Credit Hours: 1.00. A Economics related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Economics. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

ECON 42200 - Public Finance And Taxation

Credit Hours: 3.00. This course examines the role of government in market economies. The aim of the course is to provide an understanding of the reasons for government intervention in the economy and how individuals and firms respond to taxation and other government actions and how to evaluate the benefits of public programs. For example, what effects do taxes have on incentives to work, save, and invest? Emphasis is placed on current U.S. policy issues including Social Security, health care, education, environmental regulation, welfare programs, and tax reform. Typically offered Spring.

ECON 45100 - Game Theory

Credit Hours: 3.00. In the course, economic, political, and social interactions are represented as games, in which strategies and
resulting outcomes can be analyzed. The analysis of these interactions is then used to demonstrate how one can make optimal decisions under uncertainty. Typically offered Fall Spring.

**ECON 45600 - Urban Economics**

Credit Hours: 3.00. Examines the market forces that lead to the development, growth, and size of cities. In addition, this course covers the theory of location and land use, principles of local public finance, policy problems in the areas of urban housing, transportation, crime, and pollution. Typically offered Spring.

**ECON 46000 - Econometrics**

Credit Hours: 3.00. This course examines the statistical techniques used in testing economic theory. Emphasis is placed on estimating a single equation (e.g., a demand function) and the problems associated with such estimation. As part of the course, students will estimate equations on the University's computational facility. Typically offered Spring.

**ECON 46100 - Industrial Organization**

Credit Hours: 3.00. This course examines the determinants of firm and market structure and the resulting market performance in imperfectly-competitive markets. Advanced topics include advertising, research and development, imperfectly competitive international markets, and market integration. Emphasis is placed on using theoretical models of firm and industry behavior to explain and analyze real-world examples of firm behavior. Typically offered Fall.

**ECON 46600 - International Economics**

Credit Hours: 3.00. Analyzes topics in international economics, using more advantage techniques and more detailed treatment than in ECON 37000 or ECON 37100. While coverage varies somewhat with instructor, some topics could include: economic growth, innovation and technology transfer, and the role of multinational corporations. Typically offered Fall Spring.

**ECON 47000 - Transportation Economics**

Credit Hours: 3.00. Building upon basic economic principles, this course introduces the student to mainstream areas in transportation economics including market demand and supply, market structure, transportation investment, marginal cost pricing, cost-benefit analysis, land use and transportation, transportation safety, and government intervention. Blending theory with application, the course takes a case study approach in drawing upon a wealth of empirical work on highways, railroads, motor carriers, airlines, and water carriage. Typically offered Spring.

**ECON 47100 - Behavioral Economics**

Credit Hours: 3.00. Students learn about human behavior in economic environments, with a strong emphasis on classroom laboratory exercises. Topics considered include behavior in a variety of markets - for example, markets with price controls,
markets for financial assets and auction markets -- and behavior in social dilemmas that arise when people try to provide public goods voluntarily or when sellers try to conspire to fix prices. Students will also learn how people bargain with, trust each other, and show social preferences towards others. Decision-making and anomalies for risky and uncertain choices will also be covered. Typically offered Fall Spring.

**ECON 49900 - Senior Honors Thesis**

Credit Hours: 3.00. Execution by economics honors students of a senior honors thesis under the direction and supervision of the faculty. In addition to a paper, completion of the research project may involve the presentation of the findings in a seminar or workshop setting. Permission of Instructor required. Typically offered Spring.

**MGMT 30400 - Introduction To Financial Management**

Credit Hours: 3.00. Introductory course providing a foundation in corporate finance and covering topics such as: discounted cash flow valuation, bond valuation, equity valuation, option valuation, factors influencing a firm's cost of capital, and international finance issues. Typically offered Fall Spring.

**MGMT 35000 - Intermediate Accounting I**

Credit Hours: 3.00. Financial reporting for interested external parties. Emphasis on asset valuation, income measurement, and preparation of financial statements, and on appreciation of discretion available to preparers. Typically offered Fall Spring.

**MGMT 35100 - Intermediate Accounting II**

Credit Hours: 3.00. Continuation of Intermediate Accounting I. An examination of additional problems in financial reporting, including long-term assets, liabilities, owners' equity, income taxes, earnings per share, leases, and pensions. Typically offered Fall Spring.

**MGMT 38199 - Professional Practice Co-Op I**

Credit Hours: 0.00 to 3.00. Professional practice with qualified employers within industry, government, or small business. Typically offered Fall Spring Summer.

**MGMT 38299 - Professional Practice Co-Op II**

Credit Hours: 0.00 to 3.00. Professional practice with qualified employers within industry, government, or small business. Industrial Practice Fee is attached to this course. Typically offered Fall Spring Summer.
MGMT 38399 - Professional Practice Co-Op III

Credit Hours: 0.00 or 1.00. Professional practice with qualified employers within industry, government, or small business. Industrial Practice Fee is attached to this course. Typically offered Fall Spring Summer.

MGMT 39000 - Junior Level Problems In Management

Credit Hours: 0.00 to 4.00. The Accounting Internship provides work experience in businesses or other institutions. Permission of instructor required. Typically offered Fall Spring Summer.

- MGMT 39000 - Junior Level Problems In Management Women in Management
- MGMT 39000 - Junior Level Problems In Management Current Business Topics & Law
- MGMT 39000 - Junior Level Problems In Management Employment Law
- MGMT 39000 - Junior Level Problems In Management New Business Ventures & Law

MGMT 39010 - Accounting Internship

Credit Hours: 1.00. An Accounting, Economics, Industrial Management or Management related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Accounting, Economics, Industrial Management or Management. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

MGMT 39020 - Management Internship

Credit Hours: 1.00. An Accounting, Economics, Industrial Management or Management related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Accounting, Economics, Industrial Management or Management. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

MGMT 39030 - Industrial Management Internship

Credit Hours: 1.00. An Accounting, Economics, Industrial Management or Management related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Accounting, Economics, Industrial Management or Management. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

MGMT 39040 - Economics Internship
Credit Hours: 1.00. An Accounting, Economics, Industrial Management or Management related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Accounting, Economics, Industrial Management or Management. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39050 - Finance Internship**

Credit Hours: 1.00. A Finance related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Finance. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39060 - Human Resource Internship**

Credit Hours: 1.00. A Human Resource related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in HR. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39070 - Management Information Systems Internship**

Credit Hours: 1.00. A Management Information Systems related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in MIS. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39080 - Manufacturing, Operations, Supply Chain Internship**

Credit Hours: 1.00. A Manufacturing, Operations, or Supply Chain related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Manufacturing, Operations, or Supply Chain. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.

**MGMT 39090 - Marketing/Sales Internship**

Credit Hours: 1.00. A Marketing/Sales related work experience. This internship experience is intended to complement the student's academic plan-of-study and help prepare him/her for his/her future role in Marketing/Sales. A letter from the prospective employer stating the period of employment, hours per week, job title, job qualifications, and job description may be requested before registration will be permitted. Permission of instructor required. Typically offered Fall Spring.
MGMT 40100 - Krannert Executive Forum

Credit Hours: 1.00. A lecture-discussion course featuring executives from business firms and other organizations. Emphasis is placed on the actual practice of management in corporate America, on career selection and mobility, on styles of management, and on other topics not normally covered in undergraduate courses. Typically offered Fall Spring.

MGMT 40300 - Database Management Systems

Credit Hours: 3.00. Intensive study of computer-based tools and methods for developing information systems for accounting and other managerial applications. The course concentrates on data base management techniques as the foundation for construction information systems. The coverage has a highly practical orientation. Specific topics include tool selection criteria, file management techniques, data base management concepts, comparative study of the major data models, schema design methodology, procedural and nonprocedural access languages, data security, data integrity, performance tuning, multiuser processing, and software integration. Typically offered Fall Spring.

MGMT 40500 - Six Sigma And Quality Management

Credit Hours: 3.00. The course is an undergraduate elective offered as part of the Center for Manufacturing Management Enterprises (CMME) quality initiatives. Provides an overview of various tools and methods for total quality management. Typically offered Fall Spring.

MGMT 41100 - Investment Management

Credit Hours: 3.00. Examination of investment alternatives relevant to the individual and/or family-unit investor. Operations of the markets in which securities are traded. Theory and application of security valuation, portfolio construction, capital markets, and performance evaluation. Particular attention given to fixed income securities, common stocks, options, investment companies, and other popular investment alternatives. Typically offered Fall Spring.

MGMT 41200 - Financial Institutions And Markets

Credit Hours: 3.00. Introduction to financial markets and management of financial institutions. Emphasis on determinants of interest rates, and measurement and management of financial risk. Concentration on management of depository firms such as banks and savings and loans. Typically offered Fall Spring Summer.

MGMT 41300 - Corporate Finance

Credit Hours: 3.00. The course provides the theoretical and problem-solving tools needed in entry-level financial analysis positions in a corporate, commercial lending, or investment banking setting. Topics include corporate valuation, cash flow
forecasting, project evaluation, capital structure, dividend policy, capital acquisition, and mergers/acquisition. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 41601 - Corporate Mergers And Acquisitions**

Credit Hours: 3.00. The financial analysis of corporate acquisitions, mergers, and reorganizations including asset acquisitions, joint ventures, spin-offs, sell-offs, equity carve-outs, bankruptcy proceedings and reorganizations, and corporate governance. The course uses a combination of lectures, readings, and case analysis. Typically offered Fall Spring Summer.

**MGMT 42110 - Marketing Analytics**

Credit Hours: 3.00. This course covers essential decision models and strategic metrics that form the cornerstone of marketing analytics. Using the insight gained in the course, students can predict the outcome of marketing plans to boost return on marketing investment (ROMI). The course emphasizes hands-on learning so students can immediately apply the tools and techniques. A variety of relevant topics are discussed, such as market sizing, forecasting and positioning, promotion budget allocation, profit maximization, and communicating to senior executives through data-driven presentations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 42300 - New Product Development**

Credit Hours: 3.00. Provides an overview of the new product development process. Detailed insights are provided in the "fuzzy front end" of this process. Targeting positioning, and product decisions are also covered. The second half of the course completes the marketing mix and covers various market testing and product launch issues. Typically offered Fall Spring.

**MGMT 42310 - Global Marketing Management**
Credit Hours: 3.00. Most US businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

MGMT 42500 - Marketing Research

Credit Hours: 3.00. The purpose of this course is to develop skills in the planning and execution of market research studies designed to acquire useful information for marketing decisions. It aims to familiarize students with techniques of research design, data collection, and analysis. Emphasis is placed on evaluating the results obtained from such investigations. Typically offered Fall Spring.

MGMT 42610 - Brand Management

Credit Hours: 3.00. This elective course is mainly for students having a marketing concentration and focuses on the issues of how to build brand equity, how to measure brand equity, and how to manage and/or grow the brand of interest. Typically offered Fall Spring.

MGMT 42710 - Digital And Social Media Marketing

Credit Hours: 3.00. Digital marketing is where marketing meets the internet, wireless devices, and other digital media. The course covers a variety of topics including online advertising, search engine optimization, participation in social media, online listening and monitoring, and web and social media analytics. In the online marketing challenge each student team is given $250 to promote a chosen business via Google Adword platform (including search engine advertising and regular online advertising). Typically offered Full Spring.

MGMT 44362 - Leadership & Organizational Change

Credit Hours: 3.00. Economic growth and prosperity requires that organizations have effective leaders. Fortunately, we can learn how to be better leaders. There is an impressive body of research about leadership theory and practice. Cases reflecting leader successes and failures can be used to improve leadership and avoid pitfalls. Leadership can be invigorating, challenging, and rewarding. It can also be stressful and attract criticism. In this course, we will consider a multitude of perspectives on leadership theory and practice. We will consider leadership in the context of organizational change. However, the principles of ethics and integrity will not be subject to change as they are fundamental to effective leadership. Typically offered Spring.

MGMT 44429 - Employee Relations And Performance Management

Credit Hours: 3.00. This course focuses on the employer-employee relationship at work, and how managers work with employees to improve employee performance. Attention is given to the history of labor relations and performance management in work
settings, with an emphasis, however, on contemporary approaches to managing the employer-employee relationship and the systems for managing employee performance. Typically offered Fall Spring.

**MGMT 44500 - Introduction To Investments And Portfolio Management**

Credit Hours: 3.00. Introduction to investments and portfolio management for non-management students. Covers characteristics of stock, bonds, portfolios, and financial markets. Includes introduction to interest rates and time value of money. Typically offered Fall Spring Summer.

**MGMT 44690 - Negotiation And Decision Making**

Credit Hours: 3.00. The purpose of this course is to understand the theory and processes of negotiation so that you can negotiate successfully in organizational and management settings. This course covers a wide variety of negotiation problems faced by business people. In addition, models of effective and ineffective decision-making are introduced and students will have the opportunity to make decisions at both the individual and group levels. Typically offered Fall Spring.

**MGMT 44710 - Competitive Strategy**

Credit Hours: 3.00. This course studies how entrepreneurs and general managers might create investor value (above-normal returns) through the development and implementation of competitive strategies around market entry, exit, or expansion. Competitive strategy is a critical input to these firm decisions. To that end, we discuss and apply the key analytic competitive strategy concepts, frameworks and tools. Typically offered Spring.

**MGMT 44810 - Technology Strategy**

Credit Hours: 3.00. In today's business environment, it is increasingly apparent that business success is driven by a firm's ability to create and capture value through technology and innovation. Thus, the processes used by firms to develop new technologies, the choices they make regarding how to commercialize their technical knowledge, and the strategies they used to position and build a dominate competitive position all are important issues facing the firm. This course seeks to develop tools for understanding industry evolution with respect to new technology, forecast technological change, and understand the basis for technology in competitive advantage. Typically offered Spring.

**MGMT 45200 - Manufacturing Strategy And Process Innovation**

Credit Hours: 3.00. This course examines the management challenges posed by the growth in worldwide manufacturing capabilities, markets, and competition and by rapid advances in technology and the concomitant decline in product life cycles. The manufacturing function is considered within a broader context encompassing design, engineering, purchasing, marketing, and customer service in an effort to assess the degree to which existing management structures successfully meet the challenges arising from the changing manufacturing environment. Typically offered Fall Spring.

**MGMT 45300 - Labor And Employment Law**
Credit Hours: 3.00. A study of the common law and statutory law affecting union-management relations, with emphasis on current labor legislation including such areas as the National Labor Relations Act and amendments, the Railway Labor Act, wage and hour legislation, workmen's compensation, unemployment compensation, Occupational Health and Safety Acts and social security laws. Typically offered Fall Spring.

**MGMT 45600 - Legal Foundations For Business II**

Credit Hours: 3.00. A study of commercial law as prescribed by the Uniform Commercial Code, including the law of sales, documents of title, negotiable instruments, and the law relating to security interests. Additional material is presented covering the legal aspects of real estate transactions and personal property transfer. Typically offered Fall Spring.

**MGMT 45700 - Legal Background For Business II**

Credit Hours: 3.00. Course content same as MGMT 45600. No credit for students in the School of Management. Typically offered Fall Spring Summer.

**MGMT 45800 - The Regulatory Process, Consumerism, And Public Policy**

Credit Hours: 3.00. A legal analysis of the administrative process and regulatory agencies as they influence business decisions. Included will be a discussion of (1) concepts of the regulatory process from legal, economic, and social aspects; (2) administrative agencies and regulatory process; (3) legal and social implications of consumerism movement; and (4) impact of antitrust legislation on business decisions and conduct. Typically offered Summer Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**MGMT 46100 - Management Operations**

Credit Hours: 3.00. An introductory course concerned with the management of production, distribution, and service system operations. The topics covered include facilities planning, job design, materials control, workforce planning, and product quality. Typically offered Fall Spring.

**MGMT 46200 - Advanced Manufacturing Planning And Control Systems**
Credit Hours: 3.00. An intensive individual computer lab supplements lectures examining the role of computerized information and control systems in manufacturing. An elaborate series of case studies, enlivened by advanced computer simulations, bring together production planning, master scheduling, materials planning, short-range capacity planning, production floor execution, and quality control. Students plan and execute the production and purchasing of all parts, aided by an integrated MRP/capacity planning/shop-floor control system built into the computer simulation. Typically offered Fall.

**MGMT 46300 - Supply Chain Analytics**

Credit Hours: 3.00. Supply Chain Analytics focuses on data-driven and rigorous decision making in supply chain management. It is a complete problem solving and decision making process, and integrates a broad set of analytical methodologies that enable the creation of business value. MGMT 30600 is highly recommended but not required. Basic Calculus, Statistics, and Excel literacy are required. Typically offered Fall Spring Summer.

**MGMT 46400 - Logistics: Concepts And Models**

Credit Hours: 3.00. Studies the role of transportation and distribution channel, and the relations with other supply chain supply activity such as inventory control. Topics include forecasting, logistics system, facility location, distribution strategy, inventory control, supply chain contract, and so on. Typically offered Fall.

**MGMT 47000 - Transport Management I**

Credit Hours: 3.00. Basic concepts and models for the transporting and distributing function. Typically offered Fall Spring.

**MGMT 47100 - Transport Management II**

Credit Hours: 3.00. Application of the trends in modern management to transportation, with emphasis on effective coordination and control. Typically offered Fall Spring.

**MGMT 47200 - Advanced Spreadsheet Modeling And Simulation**

Credit Hours: 3.00. This course covers up-to-date and practical spreadsheet modeling tools that can be applied to a wide variety of business problems from finance, marketing, and operations. The topical coverage consists of the following five modules: (1) Excel functions, skills and financial models; (2) deterministic and stochastic optimization techniques to determine the best managerial actions under internally-and/or externally-imposed constraints; (3) probability distribution fitting techniques to find the most likely description of the uncertainty in future business; (4) simulation modeling techniques to discover and analyze the risk and uncertainties in business environment and processes; (5) application of spreadsheet modeling and simulation techniques in forecasting asset dynamics (stock price) and pricing options and real investment opportunities. This course provides hands-on experience of computer application using Microsoft Excel and the spreadsheet add-ins @RISK, RISKOptimizer, SimQuick, etc. Typically offered Spring.
MGMT 48000 - Elements Industrial Management

Credit Hours: 3.00. An analytical treatment of basic problems of general management in industrial organizations, combining lectures, case studies, and readings and building on earlier course work in economics, quantitative methods, industrial relations, and general management. Typically offered Fall Spring.

MGMT 48100 - Contemporary Management Philosophy

Credit Hours: 3.00. A lecture-discussion course which features presentations by outstanding business and government executives. Emphasis is placed on the basic problems faced by contemporary senior management and their effects upon the organization. Typically offered Fall Spring.

MGMT 48400 - Management Of Entrepreneurial Ventures

Credit Hours: 3.00. This course teaches skills required to become an entrepreneur, succeed in a start-up venture, work in venture capital, join a family business, or develop a franchise operation. Students will learn about how to identify and shape emerging market opportunities, innovate new business models, prepare and evaluate business plans, raise capital, build a skilled founding team, network for resources, and grow an initial market. Typically offered Fall Spring.

MGMT 48800 - Electronic Commerce And Information Strategies

Credit Hours: 3.00. Discuss the new business models in electronic commerce that have been enabled by Internet technologies and analyze the impact these technologies and business models have on industries, firms and people. Typically offered Spring.

MGMT 49000 - Problems In Industrial Management

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.

- MGMT 49000 - Problems In Industrial Management Experiential Marketing
- MGMT 49000 - Problems In Industrial Management Financial Reporting Frameworks
- MGMT 49000 - Problems In Industrial Management Predictive Analytics

MGMT 50300 - Advanced Accounting

Credit Hours: 3.00. Advanced course in financial accounting. A range of contemporary issues in financial reporting, such as business combinations, investments, consolidations, inflation, multinationals, and tax allocation are covered. Both technical proficiency and user applications are emphasized. Typically offered Fall Spring.
MGMT 50400 - Tax Accounting

Credit Hours: 3.00. Basic tax course designed to provide an understanding of the various federal taxes, including income, gift, estate, excise, federal insurance contribution, self-employment, and unemployment taxes. Typically offered Fall Spring.

MGMT 50500 - Management Accounting II

Credit Hours: 3.00. The focus of the course is managerial decision making and the economic role of information. Topics covered include decentralized financial performance evaluation, cost analysis, and financial planning and control systems. Typically offered Fall.

MGMT 50600 - Auditing

Credit Hours: 3.00. A study of the concepts and procedures of auditing, which is the systematic process of objectively obtaining and evaluating evidence regarding assertions about economic actions and events. Primary emphasis is on audits conducted by independent certified public accountants, but topics covered apply to internal auditing as well. Typically offered Spring.

EPCS 30100 - Junior Participation In EPICS

Credit Hours: 1.00. Continuation of EPCS courses (see EPCS 10100). The responsibilities of juniors include working with the seniors in the planning and organization of the project, contributing to the design process, problem solving by contributing expertise from their discipline, meeting with the customer, and the mentorship of sophomores and freshmen. EPCS 30100 is offered for 1 credit. The EPICS procedures manual provides information on expected relative workload for EPCS 30100 and EPCS 30200 students. May not be taken concurrently with EPCS 30200. Typically offered Summer Fall Spring.

EPCS 30200 - Junior Participation In EPICS

Credit Hours: 2.00. Continuation of EPCS courses (see EPCS 10100). The responsibilities of juniors include working with the seniors in the planning and organization of the project, contributing to the design process, problem solving by contributing expertise from their discipline, meeting with the customer, and the mentorship of sophomores and freshmen. EPCS 30200 is offered for 2 credits. The EPICS procedures manual provides information on expected relative workload for EPCS 30100 and EPCS 30200 students. May not be taken concurrently with EPCS 30100. Typically offered Summer Fall Spring.

EPCS 40100 - Senior Participation In EPICS

Credit Hours: 1.00. Continuation of EPCS courses (see EPCS 10100). Seniors are responsible for the management tasks of planning and organizing their team project activity. They are expected to contribute expertise from their discipline to the design of the team's projects throughout most of the design process phases of problem identification, specification development, design, production, and deployment. Seniors will also meet with the customer and mentor the freshman, sophomores and juniors. Seniors
using EPCS 40100/EPCS 40200 to fulfill capstone or design requirements where approved for their major may be required to satisfy additional course requirements specified by their degree program. EPCS 40100 is offered for 1 credit. The EPICS procedures manual provides information on expected relative workload for EPCS 40100 and EPCS 40200 students. May not be taken concurrently with EPCS 40200. Typically offered Summer Fall Spring.

**EPCS 40200 - Senior Participation In EPICS**

Credit Hours: 2.00. Continuation of EPCS courses (see EPCS 10100). Seniors are responsible for the management tasks of planning and organizing their team project activity. They are expected to contribute expertise from their discipline to the design of the team's projects throughout most of the design process phases of problem identification, specification development, design, production, and deployment. Seniors will also meet with the customer and mentor the freshman, sophomores and juniors. Seniors using EPCS 40100/40200 to fulfill capstone or design requirements where approved for their major may be required to satisfy additional course requirements specified by their degree program. EPCS 40200 is offered for 2 credits. The EPICS procedures manual provides information on expected relative workload for EPCS 40100 and EPCS 40200 students. May not be taken concurrently with EPCS 40100. Typically offered Summer Fall Spring.

**EPCS 41100 - Senior Design Participation In EPICS**

Credit Hours: 1.00. Continuation of EPICS courses. Seniors using EPCS 41100 to fulfill capstone or design requirements where approved for their major may be required to satisfy additional course requirements specified by their degree program. EPCS 41100 is offered for 1 credit. The EPICS procedures manual provides information on expected relative workload for EPCS 41100 and EPCS 41200 students. Seniors are responsible for the management tasks of planning and organizing their team project activity. They are expected to contribute expertise from their discipline to the design of the team's projects throughout most of the design process phases of problem identification, specification development, design, production, and deployment. Seniors will also meet with the customer and mentor the first year, sophomores and juniors. May not be taken concurrently with EPCS 41200. Typically offered Fall, Spring.

**EPCS 41200 - Senior Design Participation In EPICS**

Credit Hours: 2.00. Continuation of EPICS courses. Seniors using EPCS 41200 to fulfill capstone or design requirements where approved for their major may be required to satisfy additional course requirements specified by their degree program. EPCS 41200 is offered for 2 credit. The EPICS procedures manual provides information on expected relative workload for EPCS 41100 and EPCS 41200 students. Seniors are responsible for the management tasks of planning and organizing their team project activity. They are expected to contribute expertise from their discipline to the design of the team's projects throughout most of the design process phases of problem identification, specification development, design, production, and deployment. Seniors will also meet with the customer and mentor the first year, sophomores and juniors. May not be taken concurrently with EPCS 41100. Typically offered Fall, Spring.

**EPCS 49000 - EPICS Special Topics Course**

Credit Hours: 1.00 to 3.00. Projects of special interest outside the scope and structure of the standard EPICS courses. Interested students seek a faculty advisor in their area of special interest and together prepare a brief description of the work to be undertaken. Permission of instructor required. Typically offered Summer Fall Spring.
International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities
≈ Also counts for UC Science Technology & Society
≥ Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**
Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**

Credit Hours: 3.00. Course introduces students to "Classical" civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

**CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity**

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

**CLCS 38000 - Alexander The Great and Hellenistic World**

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

**CLCS 48000 - Potters And Society In Antiquity**

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

**COM 22400 - Communicating In The Global Workplace**

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

**COM 30300 - Intercultural Communication**

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group,
organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

**FNR 23000 - The World's Forests And Society**

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

**HIST 10300 - Introduction To The Medieval World**

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

**HIST 10400 - Introduction To The Modern World**

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

**HIST 10500 - Survey Of Global History**

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

**HIST 24000 - East Asia And Its Historic Tradition**

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

**HIST 24300 - South Asian History And Civilizations**
Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

HIST 32900 - History Of Women In Modern Europe

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

HIST 34400 - History Of Modern Japan

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

HIST 39200 - Caribbean History And Culture

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

HIST 34000 - Modern China

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.
HIST 40300 - Europe In The Reformation

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

SOC 33900 - Introduction To The Sociology Of Developing Nations

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

PHIL 11400 - Global Moral Issues

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

PHIL 23000 - Religions Of The East

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

PHIL 23100 - Religions Of The West

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

POL 13000 - Introduction To International Relations

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools
and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

**POL 23500 - International Relations Among Rich And Poor Nations**

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

**POL 23700 - Modern Weapons And International Relations**

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

**POL 34800 - East Asian Politics**

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

**POL 40300 - Field Experience In Political Science**

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.
MGMT 42210 - International Marketing

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

MGMT 45900 - International Management

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

Program Requirements

Fall 1st Year

MA 16010 - Applied Calculus I

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.
PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- UC Science - Credit Hours: 3.00
- General Elective or AP/CR by Exam/TR - Credit Hours: 2.00

15 Credits

Spring 1st Year

MA 16020 - Applied Calculus II

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics
MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

16 Credits

Fall 2nd Year

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- General Elective - Credit Hours: 3.00
- UC Science, Tech & Society - Credit Hours: 3.00

15 Credits
Spring 2nd Year

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN: IPO 1802 Accounting II

- General Elective - Credit Hours: 3.00

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL: ISH 1041 Macroeconomics

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

- International Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given
business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

- General Elective - Credit Hours: 3.00

15 Credits

Spring 3rd Year

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 45100 - Strategic Management**
Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

- International Elective - Credit Hours: 3.00

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

15 Credits

**Fall 4th Year**

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

- Professional Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00
14 Credits

Spring 4th Year

- Professional Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

120 Total Credits

Note

◊ Completion prior to admittance to upper division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

The knowledge source for specific degree requirements and completion is myPurduePlan.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ◊ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Marketing, BS
About the Program

Marketing is a dynamic field which prepares students for a variety of careers ranging from brand and product management to marketing research and analytics to advertising and public relations. What makes marketing exciting is that it has both an analytical and creative aspect. A marketing career can be a good fit for students with liberal arts as well as technical backgrounds.

Marketing involves the exchange of goods or services from an organization to a customer. This process requires the organization to decide who will value what we have to offer and why targeted customers will buy from us versus our competitors. Successful product positioning requires a firm to effectively communicate its value proposition and make the product conveniently available at a competitive price. Since marketing is concerned with meeting the needs of customers at a profit, a specialization in marketing provides a good background for a variety of career paths including a start-up or a small business. Marketing also plays an important role in non-profit organizations such as museums, hospitals, and charities.

Krannert graduates in recent years have found marketing positions with firms such as Accenture, Amazon, Anheuser Busch, Beckman Coulter, Caterpillar, DISH Network, ExactTarget, Frito-Lay, IBM, Procter and Gamble, and Sears.

Degree Requirements and Supplemental Information

The full Program Requirements for Marketing include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BS
Code: MRKT
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum

Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 3.00 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/mgmt/mgmt-req-upper-div.asp
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- Students are responsible for consulting their advisor about re-take options available to them.
- Previous enrollments in MA 16100, MA 16200, MA 16500, MA 16600 do not count against the retake policy for the MAI.

Required Major Upper Division Courses (27 credits)
OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.
MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

ECON 41900 - Managerial Economics

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

Major Selectives* - Select 5 of the following courses (15 credits)

MGMT 42210 - International Marketing

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

MGMT 42300 - New Product Development

Credit Hours: 3.00. Provides an overview of the new product development process. Detailed insights are provided in the “fuzzy front end” of this process. Targeting positioning, and product decisions are also covered. The second half of the course completes the marketing mix and covers various market testing and product launch issues. Typically offered Fall Spring.

MGMT 42500 - Marketing Research
Credit Hours: 3.00. The purpose of this course is to develop skills in the planning and execution of market research studies designed to acquire useful information for marketing decisions. It aims to familiarize students with techniques of research design, data collection, and analysis. Emphasis is placed on evaluating the results obtained from such investigations. Typically offered Fall Spring.

**MGMT 42610 - Brand Management**

Credit Hours: 3.00. This elective course is mainly for students having a marketing concentration and focuses on the issues of how to build brand equity, how to measure brand equity, and how to manage and/or grow the brand of interest. Typically offered Fall Spring.

**MGMT 49000 - Problems In Industrial Management**

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.

- MGMT 49000 - Problems In Industrial Management Pricing Strategy & Analysis

**MGMT 42110 - Marketing Analytics**

Credit Hours: 3.00. This course covers essential decision models and strategic metrics that form the cornerstone of marketing analytics. Using the insight gained in the course, students can predict the outcome of marketing plans to boost return on marketing investment (ROMI). The course emphasizes hands-on learning so students can immediately apply the tools and techniques. A variety of relevant topics are discussed, such as market sizing, forecasting and positioning, promotion budget allocation, profit maximization, and communicating to senior executives through data-driven presentations. Typically offered Fall Spring.

**MGMT 42710 - Digital And Social Media Marketing**

Credit Hours: 3.00. Digital marketing is where marketing meets the internet, wireless devices, and other digital media. The course covers a variety of topics including online advertising, search engine optimization, participation in social media, online listening and monitoring, and web and social media analytics. In the online marketing challenge each student team is given $250 to promote a chosen business via Google Adword platform (including search engine advertising and regular online advertising). Typically offered Fall Spring.

**COM 25600 - Introduction To Advertising**

Credit Hours: 3.00. An analysis of commercial persuasion from colonial times to the era of mass communication. The course examines the structure of advertising messages, how they are adapted to specific audiences, and the social settings in which they occur. Typically offered Fall Spring Summer.
AGEC 33100 - Principles Of Selling In Agricultural Business

Credit Hours: 3.00. The principles of salesmanship and their application to the agricultural business. Topics include attitudes and value systems, basic behavioral patterns, the purchase decision process, relationship of sales to marketing, selling strategies, preparing for sales calls, making sales presentations, handling objections, and closing sales. Emphasis is placed on application of principles to real-world situations and on building selling skills through class projects. Requires class trips. Students will pay individual lodging or meal expenses when necessary. Typically offered Fall Spring.

Other Departmental/Program Course Requirements (56 credits)

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

ENGL 42000 - Business Writing
Cred

It Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information—for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN: IPO 1802 Accounting II

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL: ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL: ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- University Core: Human Cultures (Humanities) - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science, Technology & Society - Credit Hours: 3.00

Management Admissions Index (MAI) Core*

**ECON 25100 - Microeconomics**
Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**MA 16010 - Applied Calculus I**

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

**MA 16020 - Applied Calculus II**

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

**Electives (Complete enough electives to equal at least 22 credits)**

The number of general electives will vary for each student and can include AP credit, transfer credit, and/or Credit by Exam.
University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

General Information

- MGMT, OBHR and ECON courses numbered 30000 or higher can only be taken after being admitted to Upper Division.
- Transfer credit for upper level MGMT, OBHR and ECON (https://selfservice.mypurdue.purdue.edu/prod/bzwtxcrd.p_select_info) courses will only be considered if taken at a 4 year AACSB accredited school, (www.aacsb.edu).
- Courses taken on approved Krannert study abroad programs may be used to satisfy degree requirements. Students participating in a Purdue approved study abroad program are registered as full-time Purdue students during their semester abroad. Schedule an appointment with your advisor to discuss study abroad opportunities.
- Minors outside of the School of Management are also available.
- Information on summer courses is available at www.purdue.edu/thinksummer.
- Refer to myPurduePlan at www.mypurdue.purdue.edu for degree requirements

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities
≈ Also counts for UC Science Technology & Society
≥ Check myPurdue for course pre-requisites

**AGEC 25000 - Economic Geography Of World Food And Resources**

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**
Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**

Credit Hours: 3.00. Course introduces students to “Classical” civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

**CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity**

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

**CLCS 38000 - Alexander The Great and Hellenistic World**
Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

**CLCS 48000 - Potters And Society In Antiquity**

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

**COM 22400 - Communicating In The Global Workplace**

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

**COM 30300 - Intercultural Communication**

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

**FNR 23000 - The World’s Forests And Society**

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

**HIST 10300 - Introduction To The Medieval World**

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.
HIST 10400 - Introduction To The Modern World

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

HIST 10500 - Survey Of Global History

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

HIST 32900 - History Of Women In Modern Europe

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan
Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

**HIST 34400 - History Of Modern Japan**

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

**HIST 39200 - Caribbean History And Culture**

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

**HIST 34000 - Modern China**

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

**SOC 33900 - Introduction To The Sociology Of Developing Nations**

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

**PHIL 11400 - Global Moral Issues**

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.
PHIL 23000 - Religions Of The East

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

PHIL 23100 - Religions Of The West

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

POL 13000 - Introduction To International Relations

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

POL 23700 - Modern Weapons And International Relations

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

POL 34800 - East Asian Politics

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.
**POL 40300 - Field Experience In Political Science**

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**Program Requirements**
Fall 1st Year

**MA 16010 - Applied Calculus I**

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- UC Science - Credit Hours: 3.00
- General Electives or AP/CR by Exam/TR - Credit Hours: 2.00

15 Credits
Spring 1st Year

MA 16020 - Applied Calculus II

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

- UC Humanities - Credit Hours: 3.00
- UC Science Tech & Society - Credit Hours: 3.00

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

16 Credits

Fall 2nd Year

MGMT 20000 - Introductory Accounting
Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

- International Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

**Spring 2nd Year**

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information— for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

- UC Science - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

15 Credits

Fall 3rd Year

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

- General Elective - Credit Hours: 3.00
15 Credits

Spring 3rd Year

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

- Marketing Major Course - Credit Hours: 3.00
- Marketing Major Course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

Fall 4th Year

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 38200 - Management Information Systems**

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time
manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

- Marketing Major Course - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

Spring 4th Year

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

- Marketing Major Course - Credit Hours: 3.00
- Marketing Major Course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

120 Total Credits

**Note**

◊ Completion prior to admittance to Upper Division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

**Degree Requirements**

The student is ultimately responsible for knowing and completing all degree requirements.

The knowledge source for specific degree requirements and completion is myPurduePlan.

**Foreign Language Courses**

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:
American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Strategy and Organizational Management, BS

About the Program

If managing people and leading organizations is your goal, the Strategy and Organizational Management major is your answer. Strategy and Organizational Management graduates lead change. Using strategic thinking and people skills, they manage effectively across a wide variety of organizations.

You'll study the foundations of business - accounting, economics, statistics, etc., then develop business strategy from different angles using innovative technology, organizational change and competitive strategy. You'll explore things like how to position your organization to outperform the competition, and how to recruit, develop and motivate staff to build a high performance team.

Strategy and Organizational Management graduates become business leaders. They are entrepreneurs, change leaders, internal organizational consultants, human resource managers and management consultants.

Two concentrations were specifically designed to complement the Strategy and Organizational Management major:

Global Leadership and Human Capital

Human resource management practices in organizations rely on soft skills that are critical for successful managers. Adding the Global Leadership and Human Capital concentration to your major will enhance your skills in change leadership, negotiating, and managing a global department. If you are interested in a career as a Human Resource Manager, Organizational Development/Effectiveness Director, Change Agent, or Management Consultant this concentration is a great fit.

Technology, Innovation & Entrepreneurship

A great addition if you are looking to start a new company or work on new product development and innovation teams. You'll develop a deeper knowledge of how to drive innovation in organizations, and an understanding of the relationships between strategy, technology, and innovation. Emphasis is placed on entrepreneurial activity in both new startup and established firms.

Degree Requirements and Supplemental Information

The full Program Requirements for Strategy and Organizational Management include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.
Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 3.00 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: [http://www.krannert.purdue.edu/undergraduate/current-students/mgmt/mgmt-req-upper-div.asp](http://www.krannert.purdue.edu/undergraduate/current-students/mgmt/mgmt-req-upper-div.asp)
- University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.
- Students are responsible for consulting their advisor about re-take options available to them.
- Previous enrollments in MA 16100, MA 16200, MA 16500, MA 16600 do not count against the retake policy for the MAI.

Required Major Upper Division Courses (24 credits)

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.
MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

Required Strategy & Organizational Management Track- select 1 (15 credits)
Track 1: Complete 15 credit hours from courses in Strategy and OBHR. Requirements listed below

Complete at least two from the following. Additional credits can be filled with any Strategy or OBHR course.

**MGMT 48400 - Management Of Entrepreneurial Ventures**

Credit Hours: 3.00. This course teaches skills required to become an entrepreneur, succeed in a start-up venture, work in venture capital, join a family business, or develop a franchise operation. Students will learn about how to identify and shape emerging market opportunities, innovate new business models, prepare and evaluate business plans, raise capital, build a skilled founding team, network for resources, and grow an initial market. Typically offered Fall Spring.

**MGMT 44810 - Technology Strategy**

Credit Hours: 3.00. In today's business environment, it is increasingly apparent that business success is driven by a firm's ability to create and capture value through technology and innovation. Thus, the processes used by firms to develop new technologies, the choices they make regarding how to commercialize their technical knowledge, and the strategies they used to position and build a dominate competitive position all are important issues facing the firm. This course seeks to develop tools for understanding industry evolution with respect to new technology, forecast technological change, and understand the basis for technology in competitive advantage. Typically offered Spring.

**MGMT 45200 - Manufacturing Strategy And Process Innovation**

Credit Hours: 3.00. This course examines the management challenges posed by the growth in worldwide manufacturing capabilities, markets, and competition and by rapid advances in technology and the concomitant decline in product life cycles. The manufacturing function is considered within a broader context encompassing design, engineering, purchasing, marketing, and customer service in an effort to assess the degree to which existing management structures successfully meet the challenges arising from the changing manufacturing environment. Typically offered Fall Spring.

**MGMT 44710 - Competitive Strategy**

Credit Hours: 3.00. This course studies how entrepreneurs and general managers might create investor value (above-normal returns) through the development and implementation of competitive strategies around market entry, exit, or expansion. Competitive strategy is a critical input to these firm decisions. To that end, we discuss and apply the key analytic competitive strategy concepts, frameworks and tools. Typically offered Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations,
building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

Complete at least two from the following. Additional credits can be filled with any Strategy or OBHR course.

**MGMT 44362 - Leadership & Organizational Change**

Credit Hours: 3.00. Economic growth and prosperity requires that organizations have effective leaders. Fortunately, we can learn how to be better leaders. There is an impressive body of research about leadership theory and practice. Cases reflecting leader successes and failures can be used to improve leadership and avoid pitfalls. Leadership can be invigorating, challenging, and rewarding. It can also be stressful and attract criticism. In this course, we will consider a multitude of perspectives on leadership theory and practice. We will consider leadership in the context of organizational change. However, the principles of ethics and integrity will not be subject to change as they are fundamental to effective leadership. Typically offered Spring.

**MGMT 44690 - Negotiation And Decision Making**

Credit Hours: 3.00. The purpose of this course is to understand the theory and processes of negotiation so that you can negotiate successfully in organizational and management settings. This course covers a wide variety of negotiation problems faced by business people. In addition, models of effective and ineffective decision-making are introduced and students will have the opportunity to make decisions at both the individual and group levels. Typically offered Fall Spring.

**MGMT 44429 - Employee Relations And Performance Management**

Credit Hours: 3.00. This course focuses on the employer-employee relationship at work, and how managers work with employees to improve employee performance. Attention is given to the history of labor relations and performance management in work settings, with an emphasis, however, on contemporary approaches to managing the employer-employee relationship and the systems for managing employee performance. Typically offered Fall Spring.

**MGMT 44310 - Managing Human Capital Globally**

Credit Hours: 3.00. Human capital - the collective knowledge, skills, and abilities of an organization's people - is a critical source of competitive advantage for organizations. The challenge of developing and managing human capital is more complex today due to globalization. This course prepares individuals to manage a firm's human capital in a global context. This course builds off of foundations in human resource management and organizational behavior to advance understanding of human and social capital for firms that operate or conduct business internationally. Students will gain insights into how to design and implement human capital management policies and programs that take into account the cultural, regulatory, and institutional diversity that global organizations face. Typically offered Spring.

- Any OBHR 59000 courses offered by OBHR area (Graduate level courses require minimum 3.4 GPA or instructor permission); typically 2 cr hr/8 week courses)

Students can choose to focus in an area by choosing 12 credits in the following way with an additional course from either track adding to 15 credits:
Track 2: TIE-Technology, Innovation, & Entrepreneurship

Complete 3 of the following courses Additional credits can be filled in with any Strategy or OBHR course.

**MGMT 48400 - Management Of Entrepreneurial Ventures**

Credit Hours: 3.00. This course teaches skills required to become an entrepreneur, succeed in a start-up venture, work in venture capital, join a family business, or develop a franchise operation. Students will learn about how to identify and shape emerging market opportunities, innovate new business models, prepare and evaluate business plans, raise capital, build a skilled founding team, network for resources, and grow an initial market. Typically offered Fall Spring.

**MGMT 44810 - Technology Strategy**

Credit Hours: 3.00. In today's business environment, it is increasingly apparent that business success is driven by a firm's ability to create and capture value through technology and innovation. Thus, the processes used by firms to develop new technologies, the choices they make regarding how to commercialize their technical knowledge, and the strategies they used to position and build a dominate competitive position all are important issues facing the firm. This course seeks to develop tools for understanding industry evolution with respect to new technology, forecast technological change, and understand the basis for technology in competitive advantage. Typically offered Spring.

**MGMT 45200 - Manufacturing Strategy And Process Innovation**

Credit Hours: 3.00. This course examines the management challenges posed by the growth in worldwide manufacturing capabilities, markets, and competition and by rapid advances in technology and the concomitant decline in product life cycles. The manufacturing function is considered within a broader context encompassing design, engineering, purchasing, marketing, and customer service in an effort to assess the degree to which existing management structures successfully meet the challenges arising from the changing manufacturing environment. Typically offered Fall Spring.

**MGMT 44710 - Competitive Strategy**

Credit Hours: 3.00. This course studies how entrepreneurs and general managers might create investor value (above-normal returns) through the development and implementation of competitive strategies around market entry, exit, or expansion. Competitive strategy is a critical input to these firm decisions. To that end, we discuss and apply the key analytic competitive strategy concepts, frameworks and tools. Typically offered Spring.

Complete 1 of the following courses:

**MGMT 44362 - Leadership & Organizational Change**

Credit Hours: 3.00. Economic growth and prosperity requires that organizations have effective leaders. Fortunately, we can learn how to be better leaders. There is an impressive body of research about leadership theory and practice. Cases reflecting leader successes and failures can be used to improve leadership and avoid pitfalls. Leadership can be invigorating, challenging, and
rewarding. It can also be stressful and attract criticism. In this course, we will consider a multitude of perspectives on leadership theory and practice. We will consider leadership in the context of organizational change. However, the principles of ethics and integrity will not be subject to change as they are fundamental to effective leadership. Typically offered Spring.

**MGMT 44690 - Negotiation And Decision Making**

Credit Hours: 3.00. The purpose of this course is to understand the theory and processes of negotiation so that you can negotiate successfully in organizational and management settings. This course covers a wide variety of negotiation problems faced by business people. In addition, models of effective and ineffective decision-making are introduced and students will have the opportunity to make decisions at both the individual and group levels. Typically offered Fall Spring.

**Track 3: Global Leadership & Human Capital Management**

Complete 3 of the following courses Additional credits can be filled in with any Strategy or OBHR course.

**MGMT 44362 - Leadership & Organizational Change**

Credit Hours: 3.00. Economic growth and prosperity requires that organizations have effective leaders. Fortunately, we can learn how to be better leaders. There is an impressive body of research about leadership theory and practice. Cases reflecting leader successes and failures can be used to improve leadership and avoid pitfalls. Leadership can be invigorating, challenging, and rewarding. It can also be stressful and attract criticism. In this course, we will consider a multitude of perspectives on leadership theory and practice. We will consider leadership in the context of organizational change. However, the principles of ethics and integrity will not be subject to change as they are fundamental to effective leadership. Typically offered Spring.

**MGMT 44690 - Negotiation And Decision Making**

Credit Hours: 3.00. The purpose of this course is to understand the theory and processes of negotiation so that you can negotiate successfully in organizational and management settings. This course covers a wide variety of negotiation problems faced by business people. In addition, models of effective and ineffective decision-making are introduced and students will have the opportunity to make decisions at both the individual and group levels. Typically offered Fall Spring.

**MGMT 44429 - Employee Relations And Performance Management**

Credit Hours: 3.00. This course focuses on the employer-employee relationship at work, and how managers work with employees to improve employee performance. Attention is given to the history of labor relations and performance management in work settings, with an emphasis, however, on contemporary approaches to managing the employer-employee relationship and the systems for managing employee performance. Typically offered Fall Spring.

**MGMT 44310 - Managing Human Capital Globally**

Credit Hours: 3.00. Human capital - the collective knowledge, skills, and abilities of an organization' people - is a critical source
of competitive advantage for organizations. The challenge of developing and managing human capital is more complex today due to globalization. This course prepares individuals to manage a firm's human capital in a global context. This course builds off foundations in human resource management and organizational behavior to advance understanding of human and social capital for firms that operate or conduct business internationally. Students will gain insights into how to design and implement human capital management policies and programs that take into account the cultural, regulatory, and institutional diversity that global organizations face. Typically offered Spring.

- Any OBHR 59000 courses offered by OBHR area (Graduate level courses require minimum 3.4 GPA or instructor permission); typically 2 cr hr/8 week courses)

Complete 1 of the following courses:

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**MGMT 45200 - Manufacturing Strategy And Process Innovation**

Credit Hours: 3.00. This course examines the management challenges posed by the growth in worldwide manufacturing capabilities, markets, and competition and by rapid advances in technology and the concomitant decline in product life cycles. The manufacturing function is considered within a broader context encompassing design, engineering, purchasing, marketing, and customer service in an effort to assess the degree to which existing management structures successfully meet the challenges arising from the changing manufacturing environment. Typically offered Fall Spring.

**MGMT 44710 - Competitive Strategy**

Credit Hours: 3.00. This course studies how entrepreneurs and general managers might create investor value (above-normal returns) through the development and implementation of competitive strategies around market entry, exit, or expansion. Competitive strategy is a critical input to these firm decisions. To that end, we discuss and apply the key analytic competitive strategy concepts, frameworks and tools. Typically offered Spring.

**Other Departmental/Program Course Requirements (56 credits)**

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.
COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information—decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

STAT 22500 - Introduction To Probability Models

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.
PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- University Core: Human Cultures (Humanities) - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science, Technology & Society - Credit Hours: 3.00

Management Admissions Index (MAI) Core*

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.
MA 16010 - Applied Calculus I

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

MA 16020 - Applied Calculus II

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

Electives (25 credits)

The number of general electives will vary for each student and can include AP credit, transfer credit, and/or Credit by Exam.

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

General Information

- MGMT, OBHR and ECON courses numbered 30000 or higher can only be taken after being admitted to Upper Division.
• Transfer credit for upper level MGMT, OBHR and ECON (https://selfservice.mypurdue.purdue.edu/prod/bzwtxcrd.p_select_info) courses will only be considered if taken at a 4 year AACSB accredited school, (www.aacsb.edu).

• Courses taken on approved Krannert study abroad programs may be used to satisfy degree requirements. Students participating in a Purdue approved study abroad program are registered as full-time Purdue students during their semester abroad. Schedule an appointment with your advisor to discuss study abroad opportunities.

• Minors outside of the School of Management are also available.

• Information on summer courses is available at www.purdue.edu/thinksummer.

• Refer to myPurduePlan at www.mypurdue.purdue.edu for degree requirements

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities
≈ Also counts for UC Science Technology & Society
≥ Check myPurdue for course pre-requisites

AGEC 25000 - Economic Geography Of World Food And Resources

Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

AGEC 34000 - International Economic Development

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

AGEC 45000 - International Agricultural Trade

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.
ANTH 34000 - Global Perspectives On Health

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

ANTH 34100 - Culture And Personality

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

CLCS 18100 - Classical World Civilizations

Credit Hours: 3.00. Course introduces students to "Classical" civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity

Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

CLCS 38000 - Alexander The Great and Hellenistic World

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

CLCS 48000 - Potters And Society In Antiquity

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

COM 22400 - Communicating In The Global Workplace
Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

**COM 30300 - Intercultural Communication**

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

**FNR 23000 - The World's Forests And Society**

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.

**HIST 10300 - Introduction To The Medieval World**

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

**HIST 10400 - Introduction To The Modern World**

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

**HIST 10500 - Survey Of Global History**

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.
HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

HIST 32900 - History Of Women In Modern Europe

Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

HIST 34300 - Traditional Japan

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

HIST 34400 - History Of Modern Japan

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle,” and Japan today. Typically offered Spring.

HIST 39200 - Caribbean History And Culture
Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

**HIST 34000 - Modern China**

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

**SOC 33900 - Introduction To The Sociology Of Developing Nations**

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.

**PHIL 11400 - Global Moral Issues**

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

**PHIL 23000 - Religions Of The East**

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

**PHIL 23100 - Religions Of The West**

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.
**POL 13000 - Introduction To International Relations**

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

**POL 14100 - Governments Of The World**

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

**POL 23500 - International Relations Among Rich And Poor Nations**

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

**POL 23700 - Modern Weapons And International Relations**

Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

**POL 34800 - East Asian Politics**

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

**POL 40300 - Field Experience In Political Science**

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people,
capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**Program Requirements**

**Fall 1st Year**

**MA 16010 - Applied Calculus I**

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

**ENGL 10600 - First-Year Composition**
Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

PSY 12000 - Elementary Psychology

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

SOC 10000 - Introductory Sociology

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- UC Science - Credit Hours: 3.00
- General Electives or AP/CR by Exam/TR - Credit Hours: 2.00

15 Credits

Spring 1st Year

MA 16020 - Applied Calculus II

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

COM 11400 - Fundamentals Of Speech Communication
Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

- UC Science - Credit Hours: 3.00
- UC Human Cultures (Humanities) - Credit Hours: 3.00

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

16 Credits

**Fall 2nd Year**

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

**STAT 22500 - Introduction To Probability Models**
Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- General Elective - Credit Hours: 3.00
- UC Science, Tech & Society - Credit Hours: 3.00

15 Credits

Spring 2nd Year

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer.

CCN: IPO 1802 Accounting II

- General Elective - Credit Hours: 3.00

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer.

CTL:ISH 1041 Macroeconomics

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

- International Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

**MGMT 31000 - Financial Management**
Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

- SOM Track Course - Credit Hours: 3.00

15 Credits

Spring 3rd Year
OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

ENGL 42000 - Business Writing

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

15 Credits

Fall 4th Year

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and
service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

- SOM Track Course - Credit Hours: 3.00
- SOM Track Course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

Spring 4th Year

- SOM Track Course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00

15 Credits

120 Total Credits

Note

◊ Completion prior to admittance to Upper Division strongly encouraged

*UC* Fulfills University Core requirement

CC Critical Course to satisfy MAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

The knowledge source for specific degree requirements and completion is myPurduePlan.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:

- American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish
Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Supply Chain, Information and Analytics, BS

About the Program

Supply Chain, Information and Analytics is for problem solvers who love to work with data. Agile businesses rely on statistics and data analysis to make informed decisions on everything from client services to vendor management. Data is collected, stored in databases, analyzed and used to create efficiency in operations. Technical knowledge in management information systems, business analytics, supply chain and operations provides support to the business of doing business.

You've probably heard terms like supply chain, operations efficiency, big data, cloud computing, data mining, data science and digital economy. Learn what they mean, how they work and how they affect businesses. You'll study a foundation of management courses to understand the different parts of a business. Data analytics -- including statistical analysis, data modeling and database management -- is stressed in this program. You may choose to dive deeper into one or more of these three areas: Supply Chain and Operations, Management Information Systems or Business Analytics.

Through a data-driven approach graduates are optimizing business performance as Data Analytics Managers, IT consultants, and Logistics Analysts for Accenture, IBM, Deloitte, Microsoft, General Motors and other companies.

Degree Requirements and Supplemental Information

The full Program Requirements for Supply Chain, Information and Analytics include all Supplemental Information and selective lists of those categories which a student must fulfill in order to earn their degree. These are intended to be print-friendly, but include less descriptive course detail.

Please see below for program requirements and the necessary degree fulfillments.

Program: MGMT-BS
Code: SCIA
Credit Hours: 120
Graduation Index: 2.00 minimum
Major Index: 2.00 minimum

Management Admissions Index Core (MAI)

- To be admitted into Upper Division, students who have completed all courses in the MAI must have at least a 3.00 MAI GPA and a 2.50 cumulative GPA, have a C- or higher in all MAI and required School of Management courses, and may not be on academic probation.
- Complete MGMT 29500 with a C- or higher; Grade calculated in GPA but not for MAI. Change of Degree Objective (CODO) students who have completed a similar career development course are exempt from this requirement.
- Requirements for Upper Division can be found online: http://www.krannert.purdue.edu/undergraduate/current-students/mgmt/mgmt-req-upper-div.asp
University Policy states students may only attempt a course 3 times and grades of W or WF are included in this limit. Per the School of Management, no more than three different MAI courses, or their equivalents, may be taken two times for a grade.

- School of Management, MAI, and concentration courses with grades of "F" cannot be replaced by a transfer course.
- Previous enrollments in MA 16100, MA 16200, MA 16500, MA 16600 do not count against the retake policy for the MAI.

Required Major Upper Division Courses (42 credits)

**OBHR 33000 - Introduction To Organizational Behavior**

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

**MGMT 30500 - Business Statistics**

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

**MGMT 31000 - Financial Management**

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

**MGMT 32400 - Marketing Management**

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.
MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

MGMT 44428 - Human Resources Management

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

MGMT 47200 - Advanced Spreadsheet Modeling And Simulation
Credit Hours: 3.00. This course covers up-to-date and practical spreadsheet modeling tools that can be applied to a wide variety of business problems from finance, marketing, and operations. The topical coverage consists of the following five modules: (1) Excel functions, skills and financial models; (2) deterministic and stochastic optimization techniques to determine the best managerial actions under internally-and/or externally-imposed constraints; (3) probability distribution fitting techniques to find the most likely description of the uncertainty in future business; (4) simulation modeling techniques to discover and analyze the risk and uncertainties in business environment and processes; (5) application of spreadsheet modeling and simulation techniques in forecasting asset dynamics (stock price) and pricing options and real investment opportunities. This course provides hands-on experience of computer application using Microsoft Excel and the spreadsheet add-ins @RISK, RISKOptimizer, SimQuick, etc. Typically offered Spring.

**MGMT 46300 - Supply Chain Analytics**

Credit Hours: 3.00. Supply Chain Analytics focuses on data-driven and rigorous decision making in supply chain management. It is a complete problem solving and decision making process, and integrates a broad set of analytical methodologies that enable the creation of business value. MGMT 30600 is highly recommended but not required. Basic Calculus, Statistics, and Excel literacy are required. Typically offered Fall Spring Summer.

**MGMT 54400 - Database Management Systems**

Credit Hours: 3.00. Covers the theory and practice of database design and usage. Students will learn the importance of data modeling concepts and how to use these effectively and how to plan and design a database, including issues such as data security and control. The following course is recommended: MGMT 29000 Programming for Business Applications or CS 15900 or CS 17700 or CNIT 17500, all with a C- or higher. Typically offered Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

Major Selectives* - Choose one or more career tracks (9 credits/track)

1. Business Analytics

Successfully complete the following two courses:

**MGMT 49000 - Problems In Industrial Management**

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.
MGMT 40500 - Six Sigma And Quality Management

Credit Hours: 3.00. The course is an undergraduate elective offered as part of the Center for Manufacturing Management Enterprises (CMME) quality initiatives. Provides an overview of various tools and methods for total quality management. Typically offered Fall Spring.

And successfully complete at least one of the following courses:

MGMT 49000 - Problems In Industrial Management

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.

MGMT 46400 - Logistics: Concepts And Models

Credit Hours: 3.00. Studies the role of transportation and distribution channel, and the relations with other supply chain supply activity such as inventory control. Topics include forecasting, logistics system, facility location, distribution strategy, inventory control, supply chain contract, and so on. Typically offered Fall.

ECON 36000 - Econometrics

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate casual effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Kramert computer labs. Typically offered Fall Spring.

2. Management Information Systems

Successfully complete the following two courses:

MGMT 29000 - Problems In Management

Credit Hours: 0.00 to 4.00. Arrange with instructor before enrolling. Investigation in a specific management field. Permission of instructor required. Typically offered Fall Spring Summer.

MGMT 54500 - Systems Development
Credit Hours: 3.00. Focuses on information systems development theories, practices, and tools for rapid adaptation and management of leading-edge as well as emerging computing paradigms. The following courses are recommended: MGMT 38200, with a C- or higher; and MGMT 29000 Programming for Business Applications or CS 15900 or CS 17700 or CNIT 17500, all with a minimum grade of C-. Permission of department required. Typically offered Spring.

And successfully complete at least one of the following courses:

**MGMT 54700 - Computer Communications Systems**

Credit Hours: 3.00. Explores the convergence of telecommunications and computer technology, framed in terms of their strategic impact in the business environment. Components of computer communication systems are surveyed. Major design and analysis issues in the development, implementation, and management of computer communication systems are examined. Relevant emerging trends are highlighted. The course is devoted to technical issues, applications, and case studies covering telecommunication systems used in business. Typically offered Fall.

**MGMT 48800 - Electronic Commerce And Information Strategies**

Credit Hours: 3.00. Discuss the new business models in electronic commerce that have been enabled by Internet technologies and analyze the impact these technologies and business models have on industries, firms and people. Typically offered Spring.

3. Supply Chain and Operations Management

Successfully complete the following two courses:

**MGMT 46400 - Logistics: Concepts And Models**

Credit Hours: 3.00. Studies the role of transportation and distribution channel, and the relations with other supply chain supply activity such as inventory control. Topics include forecasting, logistics system, facility location, distribution strategy, inventory control, supply chain contract, and so on. Typically offered Fall.

**MGMT 46200 - Advanced Manufacturing Planning And Control Systems**

Credit Hours: 3.00. An intensive individual computer lab supplements lectures examining the role of computerized information and control systems in manufacturing. An elaborate series of case studies, enlivened by advanced computer simulations, bring together production planning, master scheduling, materials planning, short-range capacity planning, production floor execution, and quality control. Students plan and execute the production and purchasing of all parts, aided by an integrated MRP/capacity planning/shop-floor control system built into the computer simulation. Typically offered Fall.

And successfully complete at least one of the following courses:
MGMT 49000 - Problems In Industrial Management

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.

MGMT 40500 - Six Sigma And Quality Management

Credit Hours: 3.00. The course is an undergraduate elective offered as part of the Center for Manufacturing Management Enterprises (CMME) quality initiatives. Provides an overview of various tools and methods for total quality management. Typically offered Fall Spring.

Other Departmental/Program Course Requirements (56 credits)

MGMT 29500 - Professional Career Management

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.

COM 11400 - Fundamentals Of Speech Communication

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

CS 23500 - Introduction To Organizational Computing

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

ECON 25200 - Macroeconomics

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of
government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management’s internal use of accounting information— for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**

Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- International Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00
- University Core: Human Cultures (Humanities) - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science - Credit Hours: 3.00
- University Core: Science, Technology & Society - Credit Hours: 3.00
Management Admissions Index (MAI) Core*

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

ENGL 10600 - First-Year Composition

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

ENGL 10800 - Accelerated First-Year Composition

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

MA 16010 - Applied Calculus I

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

MA 16020 - Applied Calculus II

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL:IPO 1801 Accounting I
Electives (13 credits)

The number of general electives will vary for each student and can include AP credit, transfer credit, and/or Credit by Exam.

University Core Requirements

- Human Cultures Humanities
- Human Cultures Behavioral/Social Science
- Information Literacy
- Science #1
- Science #2
- Science, Technology & Society Selective
- Written Communication
- Oral Communication
- Quantitative Reasoning

General Information

- MGMT, OBHR and ECON courses numbered 30000 or higher can only be taken after being admitted to Upper Division.
- Transfer credit for upper level MGMT, OBHR and ECON (https://selfservice.mypurdue.purdue.edu/prod/bzwtxcrd.p_select_info) courses will only be considered if taken at a 4 year AACSB accredited school, (www.aacsb.edu).
- Courses taken on approved Krannert study abroad programs may be used to satisfy degree requirements. Students participating in a Purdue approved study abroad program are registered as full-time Purdue students during their semester abroad. Schedule an appointment with your advisor to discuss study abroad opportunities.
- Minors outside of the School of Management are also available.
- Information on summer courses is available at www.purdue.edu/thinksummer.
- Refer to myPurduePlan at www.mypurdue.purdue.edu for degree requirements

International Electives

Any foreign language course - 20100, 20200, 30100, 30200, 40100, and 40200 not in your native language. Foreign language course cannot be taught in English.

Global or international courses (3-6 credits) taken at an approved Purdue study abroad program may be used toward the International Elective with advisor approval.

± Also counts for UC Humanities
≈ Also counts for UC Science Technology & Society
≥ Check myPurdue for course pre-requisites

AGEC 25000 - Economic Geography Of World Food And Resources
Credit Hours: 3.00. A study of the important issues and economic decisions about worldwide resource use for food and fiber production as influenced by geography, climate, history, social institutions, national self-interest, and the environment. Typically offered Fall Spring.

**AGEC 34000 - International Economic Development**

Credit Hours: 3.00. This course is designed to introduce students to issues and problems related to international economic development. Topics covered include a description of the current situation in developing countries and the history of growth and development. The course is grounded in the body of theory associated with economic development, but concentrates on the many practical problems such as poverty, population growth, urbanization, education and the environment. The three areas with the greatest attention are agricultural development, international trade, and policy analysis for developing countries. Typically offered Spring.

**AGEC 45000 - International Agricultural Trade**

Credit Hours: 3.00. Study of U.S. agricultural trade with emphasis on international trade theory, exchange rates and their determination, relationships between domestic agricultural policies and trade policies, and analysis of institutional arrangements for world trade in agricultural products. Typically offered Fall.

**ANTH 34000 - Global Perspectives On Health**

Credit Hours: 3.00. This course examines health issues and risks faced by individuals around the world, but especially in resource poor geographical areas. We will explore in-depth the gendered, ethnic, cultural, and class dimensions that underlie the patterning of disease and illness worldwide. Typically offered Fall Spring.

**ANTH 34100 - Culture And Personality**

Credit Hours: 3.00. A cross-cultural survey stressing different basic personality types and the processes by which adult personality is acquired. Case studies of selected non-Western cultures will be used to provide comparative perspective. Typically offered Fall Spring Summer.

**CLCS 18100 - Classical World Civilizations**

Credit Hours: 3.00. Course introduces students to "Classical" civilizations on three continents (Europe, Africa, and Asia) demonstrably interconnected by an ancient world system. Course focuses on essential themes of past civilization: religion, philosophy, surviving texts, gender relations, urbanism, technology, social and political formations. Typically offered Summer Fall Spring.

**CLCS 23700 - Gender And Sexuality In Greek And Roman Antiquity**
Credit Hours: 3.00. How identities based on gender, sexual behavior and sexual desire, and socio-economic status are established in ancient Greece and Rome. Exploration of why these ancient views of gender and sexuality remain of continuing importance in the 21st century. All readings in English. Typically offered Fall Spring Summer.

**CLCS 38000 - Alexander The Great and Hellenistic World**

Credit Hours: 3.00. Course examines the career of Alexander the Great and the rise of Macedonia in the Hellenistic Era. Topics include the emergence of Macedonia under Philip II; the achievements of Alexander the Great; and the wars of succession following his demise. Typically offered Summer Fall Spring.

**CLCS 48000 - Potters And Society In Antiquity**

Credit Hours: 3.00. Course covers the range of eastern Mediterranean ceramics encountered in Rough Cilicia Archaeological Survey Project from the Bronze Age to the Later Roman Empire. Course also explores strategies employed by archaeologists and historians to exploit ceramics as research materials. Typically offered Summer Fall Spring.

**COM 22400 - Communicating In The Global Workplace**

Credit Hours: 3.00. This introductory course explores communication issues that arise in the global workplace. The course develops an appreciation of the relationship among culture, communication, and ways of organizing and doing business. Typically offered Fall.

**COM 30300 - Intercultural Communication**

Credit Hours: 3.00. Study of the complex relationship between culture and communication in a variety of interpersonal, group, organizational, and computer-mediated settings. Application of theory and research to development of the knowledge, attitudes, and skills associated with intercultural communication competence. Typically offered Fall Spring.

**CSR 33200 - Cross-Cultural Marketing And International Retailing**

Credit Hours: 3.00. Examination of marketing/retail practices used to target domestic and global consumer market segments. Development of successful retail and marketing strategies is stressed. Typically offered Fall Spring.

**FNR 23000 - The World's Forests And Society**

Credit Hours: 3.00. Examination of structure, function, and environmental and cultural significance of forest ecosystems throughout the world. Typically offered Fall.
HIST 10300 - Introduction To The Medieval World

Credit Hours: 3.00. Barbarians, kings, queens, peasants, witches, saints, teachers, students, heretics, Moslems, Jews, Christians, love, death, monks, farm life, city life, ordinary men, women, and children as Europe develops from A.D. 500 to 1500. Typically offered Fall Spring Summer.

HIST 10400 - Introduction To The Modern World

Credit Hours: 3.00. Traces the expansion of Europe into the Americas, Africa, and Asia. The French Revolution, nationalism, and the development of western European states from the era of the Reformation to the present are studied. Typically offered Fall Spring Summer.

HIST 10500 - Survey Of Global History

Credit Hours: 3.00. A survey of the interaction between the civilizations of Asia, Africa, Europe, and the Americas since 1500, with attention to cultural comparisons over time, and to the implications of global interdependence for the environment, health, economy, and geopolitics. Typically offered Fall Spring Summer.

HIST 24000 - East Asia And Its Historic Tradition

Credit Hours: 3.00. Survey of the great historic traditions of China, Japan, and Korea from earliest times to approximately 1600, with special attention to state formation, society, intellectual, philosophical, and religious developments, and the visual, musical, and literary arts. Typically offered Fall.

HIST 24300 - South Asian History And Civilizations

Credit Hours: 3.00. Survey history of India, Pakistan, and Bangladesh, from the origins of South Asian civilization to the present. Topics include ancient India, the Mughal Empire, the colonial experience, the independence movement, and conflict and popular culture. Typically offered Fall Spring.

HIST 32000 - The World Of Charlemagne

Credit Hours: 3.00. This course examines Charlemagne's efforts to create a new European civilization (A.D. 768-814). The course incorporates the perspectives of Saxons, Vikings, Muslims, Byzantines, peasants, aristocrats, popes, bishops, abbots, and emphasizes the interplay between politics and art, culture, religion, and society. Typically offered Fall Spring.

HIST 32900 - History Of Women In Modern Europe
Credit Hours: 3.00. This course examines women's experiences and constructions of femininity in Europe from 1789 to the present, including women in revolutions, state intervention in the family, changing ideas of sexuality, women's movements, women in socialism and fascism, and women in war. Typically offered Fall Spring.

**HIST 34300 - Traditional Japan**

Credit Hours: 3.00. The course considers Japanese civilization from its origins to the establishment of the Tokugawa Shogun (1603). Divided between political and cultural history, it will emphasize the development of traditional institutions in Japanese society, religion, philosophy, art, and literature. Typically offered Fall.

**HIST 34400 - History Of Modern Japan**

Credit Hours: 3.00. A survey of Japanese history from the nineteenth century to the present, including Japan's response to Western expansionism, the formation of the modern state, political parties, industrialization, the Pacific War, the American Occupation, the postwar "economic miracle," and Japan today. Typically offered Spring.

**HIST 39200 - Caribbean History And Culture**

Credit Hours: 3.00. (AAS 39200) This survey of Caribbean history highlights the British, Danish, Dutch, French, and Spanish islands. It addresses slavery, colonialism, independence, nationalism and gender relations. It will attract students interested in Latin America, African Diaspora studies, immigration, and cultural studies. Typically offered Summer Fall Spring.

**HIST 34000 - Modern China**

Credit Hours: 3.00. Chinese history from the Qing Dynasty (1644) to the present, with emphasis on the period since 1800. Attention given to internal developments and China's response to Western thought and material accomplishments. Nationalism and communism in the twentieth century are examined. Typically offered Spring.

**HIST 40300 - Europe In The Reformation**

Credit Hours: 3.00. A study of decay and renewal in European society, 1300 to 1650. Concentrates on the Protestant and Catholic Reformation and religious wars, but also covers the Northern Renaissance, the New Monarchies, and the discovery and exploration of the New World. Typically offered Fall Spring.

**SOC 33900 - Introduction To The Sociology Of Developing Nations**

Credit Hours: 3.00. Analysis of the causes of development in the Third World. Topics include: the food crisis; population growth; poverty and inequality; industrialization, including the role of multinational corporations; debt; and the International Monetary Fund. Regional differences in patterns and causes analyzed. Typically offered Fall Spring.
PHIL 11400 - Global Moral Issues

Credit Hours: 3.00. A systematic and representative examination of significant contemporary moral problems with a focus on global issues such as international justice, poverty and foreign aid, nationalism and patriotism, just war, population and the environment, human rights, gender equality, and national self-determination. Typically offered Fall Spring Summer.

PHIL 23000 - Religions Of The East

Credit Hours: 3.00. (REL 23000) A study of the history, teachings, and present institutions of the religions of India, Southeast Asia, China, and Japan. This will include Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, Shintoism, and Zoroastrianism. Typically offered Fall Spring Summer.

PHIL 23100 - Religions Of The West

Credit Hours: 3.00. (REL 23100) A comparative study of the origins, institutions, and theologies of the three major Western religions, Judaism, Christianity, and Islam. Typically offered Fall Spring Summer.

POL 13000 - Introduction To International Relations

Credit Hours: 3.00. An analysis of the fundamentals of international law, organization, and politics, particularly as relevant to contemporary international relations. Typically offered Summer Fall Spring. CTL:ISH 1003 Introduction To World Politics

POL 14100 - Governments Of The World

Credit Hours: 3.00. An introduction to the politics and government in selected foreign countries. The course presents the tools and background needed to understand contemporary events in the world beyond the United States. Readings and discussions pay special attention to democratization and development. Typically offered Summer Fall Spring.

POL 23500 - International Relations Among Rich And Poor Nations

Credit Hours: 3.00. Introduction to the major themes in the contemporary international relations among rich and poor nations. Examines such areas as North-South relations, interdependence, international organizations, and global development. Typically offered Fall Spring.

POL 23700 - Modern Weapons And International Relations
Credit Hours: 3.00. This course introduces the student to the roles that modern weapons systems play in contemporary international relations. Typically offered Fall Spring.

**POL 34800 - East Asian Politics**

Credit Hours: 3.00. The course will examine East Asian politics and society, with special emphasis on Japan. Typically offered Fall Spring.

**POL 40300 - Field Experience In Political Science**

Credit Hours: 1.00 to 3.00. Students are able to earn credit for internships in federal, state, and local government offices as well as with political parties, campaign organizations, nonprofit organizations, legislative bodies, and interest groups. Credit and course requirements to be arranged with the instructor. Permission of instructor required. Typically offered Fall Spring Summer.

You must be in Upper Division to take these classes.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 42210 - International Marketing**

Credit Hours: 3.00. Most U.S. businesses, large and small, are becoming deeply involved in international business. The trend is going to grow even stronger because of the influence of the World Trade Organization and regional trade blocks. Under these circumstances, it is imperative that business managers possess the skill set to adapt their marketing strategies to the needs of international markets. The course will cover the concepts and theories pertaining to international marketing and provide the tools necessary to develop an international marketing plan. Typically offered Fall Spring.

**MGMT 45900 - International Management**
Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

Program Requirements

Fall 1st Year

**MA 16010 - Applied Calculus I**

Credit Hours: 3.00. Topics include trigonometric and exponential functions; limits and differentiation, rules of differentiation, maxima, minima and optimization; curve sketching, integration, anti-derivatives, fundamental theorem of calculus. Properties of definite integrals and numerical methods. Applications to life, managerial and social sciences. Typically offered Fall Spring Summer.

**ENGL 10600 - First-Year Composition**

Credit Hours: 4.00. Extensive practice in writing clear and effective prose. Instruction in organization, audience, style, and research-based writing. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400.

**ENGL 10800 - Accelerated First-Year Composition**

Credit Hours: 3.00. An accelerated composition course that substitutes for ENGL 10600 for students showing superior writing ability. Typically offered Summer Fall Spring.

- UC Science - Credit Hours: 3.00

**PSY 12000 - Elementary Psychology**

Credit Hours: 3.00. Introduction to the fundamental principles of psychology, covering particularly the topics of personality, intelligence, emotion, abnormal behavior, attention, perception, learning, memory, and thinking. As part of their learning experience, students participate in psychological experiments. Typically offered Fall Spring Summer. CTL:ISH 1020 Introduction To Psychology

**SOC 10000 - Introductory Sociology**
Credit Hours: 3.00. A survey course designed to introduce the student to the scene of human society. Fundamental concepts, description, and analysis of society, culture, the socialization process, social institutions, and social change. Students of junior or senior standing should take SOC 31200, unless they are sociology or law and society majors. Typically offered Fall Spring Summer. CTL:ISH 1060 Introduction To Sociology

- General Electives or AP/CR by Exam/TR - Credit Hours: 2.00

15 Credits

Spring 1st Year

**MA 16020 - Applied Calculus II**

Credit Hours: 3.00. This course covers techniques of integration; infinite series, convergence tests; differentiation and integration of functions of several variables; maxima and minima, optimization; differential equations and initial value problems; matrices, determinants, eigenvalues and eigenvectors. Applications. Typically offered Fall Spring Summer.

**COM 11400 - Fundamentals Of Speech Communication**

Credit Hours: 3.00. A study of communication theories as applied to speech; practical communicative experiences ranging from interpersonal communication and small group process through problem identification and solution in discussion to informative and persuasive speaking in standard speaker-audience situations. Typically offered Fall Spring Summer. NOTE: Concurrent registration is not permitted for ENGL 10600 and COM 11400. CTL:ICM 1103 Fundamentals Of Public Speaking

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

- UC Science - Credit Hours: 3.00
- UC Human Cultures (Humanities) - Credit Hours: 3.00

**MGMT 29500 - Professional Career Management**

Credit Hours: 1.00. Workshops and lectures involving students in the decision-making process for career planning. Visiting executives discuss career opportunities in their fields. Emphasis is on future academic planning, exploring careers, search strategy, interviewing, career progression, and other career and academic issues. Sophomores 45-59 hours permitted with instructor permission. Typically offered Fall Spring.
16 Credits

Fall 2nd Year

**MGMT 20000 - Introductory Accounting**

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

**CS 23500 - Introduction To Organizational Computing**

Credit Hours: 3.00. People and organizations, decision-making, information systems, telecommunications, desktop systems, integration tools, collaboration and groupware, multimedia, authoring multimedia documents, emerging technologies. May not be taken for credit by Computer Science majors. Typically offered Summer Fall Spring.

**STAT 22500 - Introduction To Probability Models**

Credit Hours: 3.00. An introduction to basic probability. Emphasis is placed on formulation of models and applications. Probability calculus, standard distributions, random variables, and moments. Credit cannot be given for more than one of STAT 22500, STAT 31100, or STAT 41600. Typically offered Summer Fall Spring.

- General Elective - Credit Hours: 3.00
- UC Science, Tech & Society - Credit Hours: 3.00

15 Credits

Spring 2nd Year

**MGMT 20100 - Management Accounting I**

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN:IPO 1802 Accounting II

**ECON 25200 - Macroeconomics**
Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer.

CTL:ISH 1041 Macroeconomics

MGMT 30500 - Business Statistics

Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.

- General Elective - Credit Hours: 3.00
- International Elective - Credit Hours: 3.00

15 Credits

Fall 3rd Year

MGMT 31000 - Financial Management

Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.

MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems
Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.

**MGMT 30600 - Management Science**

Credit Hours: 3.00. Use of optimization, simulation, and decision theory models to support management decision making. Emphasis on modeling and interpreting results for managerial applications of linear and integer programming models, network problems, simulation models, and decision analysis. Computer applications are stressed. Typically offered Fall Spring.

15 Credits

**Spring 3rd Year**

**MGMT 47200 - Advanced Spreadsheet Modeling And Simulation**

Credit Hours: 3.00. This course covers up-to-date and practical spreadsheet modeling tools that can be applied to a wide variety of business problems from finance, marketing, and operations. The topical coverage consists of the following five modules: (1) Excel functions, skills and financial models; (2) deterministic and stochastic optimization techniques to determine the best managerial actions under internally-and/or externally-imposed constraints; (3) probability distribution fitting techniques to find the most likely description of the uncertainty in future business; (4) simulation modeling techniques to discover and analyze the risk and uncertainties in business environment and processes; (5) application of spreadsheet modeling and simulation techniques in forecasting asset dynamics (stock price) and pricing options and real investment opportunities. This course provides hands-on experience of computer application using Microsoft Excel and the spreadsheet add-ins @RISK, RISKOptimizer, SimQuick, etc. Typically offered Spring.

**MGMT 35400 - Legal Foundations Of Business I**

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

**MGMT 45100 - Strategic Management**

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in
functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

- International Elective - Credit Hours: 3.00

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context, project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

15 Credits

**Fall 4th Year**

**MGMT 36100 - Operations Management**

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

**MGMT 44428 - Human Resources Management**

Credit Hours: 3.00. Survey of the techniques and practices used in human resource management. Emphasis is on legal requirements, cost/benefit considerations, and strategic needs in managing human resources. Topics include recruitment, selection and placement, compensation, work design, and reactions to work. Specific techniques reviewed include assessment centers, incentive plans, structured interviewing, and autonomous work groups. Current issues and managerial decision making are emphasized. Typically offered Summer Fall Spring.

**ECON 41900 - Managerial Economics**

Credit Hours: 3.00. The application of economic analysis and common nonmathematical models to managerial decisions. Topics include decisions involving time and uncertainty in both competitive and noncompetitive markets. Pricing decisions are emphasized. Permission of Department required. Typically offered Fall Spring.

**MGMT 46300 - Supply Chain Analytics**

Credit Hours: 3.00. Supply Chain Analytics focuses on data-driven and rigorous decision making in supply chain management. It
is a complete problem solving and decision making process, and integrates a broad set of analytical methodologies that enable the creation of business value. MGMT 30600 is highly recommended but not required. Basic Calculus, Statistics, and Excel literacy are required. Typically offered Fall Spring Summer.

MGMT 54400 - Database Management Systems

Credit Hours: 3.00. Covers the theory and practice of database design and usage. Students will learn the importance of data modeling concepts and how to use these effectively and how to plan and design a database, including issues such as data security and control. The following course is recommended: MGMT 29000 Programming for Business Applications or CS 15900 or CS 17700 or CNIT 17500, all with a C- or higher. Typically offered Fall Spring.

15 Credits

Spring 4th Year

- Required SCIA course - Credit Hours: 3.00
- Required SCIA course - Credit Hours: 3.00
- Required SCIA course - Credit Hours: 3.00
- General Elective - Credit Hours: 3.00
- General Elective - Credit Hours: 2.00

14 Credits

120 Total Credits

Note

◊ Completion prior to admittance to Upper Division strongly encouraged
*UC* Fulfills University Core requirement
CC Critical Course to satisfy MAI requirements

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

The knowledge source for specific degree requirements and completion is myPurduePlan.

Foreign Language Courses

Foreign Language proficiency requirements vary by program. For acceptable languages and proficiency levels, see your advisor:
American Sign Language, Arabic, Chinese, French, German, (ancient) Greek, Hebrew, Italian, Japanese, Latin, Portuguese, Russian, Spanish

Critical Course

The ♦ course is considered critical. A Critical Course is one that a student must be able to pass to persist and succeed in a particular major.

Advanced Accountancy Certificate

Effective Fall 2014

The Krannert Graduate School of Management is pleased to offer this description of our Certificate of Advanced Accountancy Program. This program enhances our accounting undergraduate curriculum by

- Offering a directed plan of study to meet the 150 hour requirement for taking the CPA Exam.
- Opportunities for enhanced training for those interested in corporate accounting positions.
- Offering students an opportunity to earn advanced recognition by obtaining a Certificate of Advanced Accountancy in addition to their undergraduate degree.
- Offering 5 specialized, upper-division accounting courses.
- Increasing the number of communication, ethics, leadership and other courses taken outside the School of Management.

To complete the requirements for the Certificate a student must

Complete 150 credit hours

Take four of the six additional courses offered in accounting

MGMT 50700 - Advanced Federal Income Taxes

Credit Hours: 3.00. Advanced course in federal income taxes, with a brief study of gift and estate taxes. Some issues covered in MGMT 50400 are studied in more depth, particularly taxation of corporations and partnerships. The course, which is taught in seminar format, gives the student considerable practice in doing tax research and reporting conclusions. It is especially appropriate for the student entering a career in a tax environment. Typically offered Spring.

MGMT 50900 - International Accounting

Credit Hours: 3.00. Provides insight into and an understanding of the many accounting problems and issues faced in an international business environment. The material is approached from two compatible and overlapping perspectives: the perspective of accounting or financial management in a U.S. multinational corporation and the perspective of an investor interested in understanding the international business environment. Typically offered Fall Spring.
MGMT 53000 - Financial Statement Analysis

Credit Hours: 3.00. The course is designed to help students: (a) understand the content of corporate financial reports and analyze the information therein, (b) use the information for evaluating the financial health, operating performance, and growth prospects of corporation-type companies, and (c) learn the various models available and estimate the value of such a company using those models and the information abstracted from the financial reports. The topics to be covered include the corporate financial statements and their relationships, ratio analysis for profitability and risk evaluation, assets/liabilities/owners' equality analysis, intercompany investments, forecasting financial statements, and company valuation models. Typically offered Fall Spring.

MGMT 53100 - Government/Not-For-Profit Accounting

Credit Hours: 3.00. This course is designed to provide students with a solid understanding of the financial reporting and accounting principles used in the preparation of governmental and not-for-profit entities. Topics include, but are not limited to, fund accounting, city government accounting, state government accounting, special funds, budgetary accounting for the general and special revenue funds, fiduciary funds and government-wide statements, university accounting, accounting for community foundations, not-for-profit accounting, and auditing not-for-profit entities. Typically offered Fall Spring.

MGMT 53200 - Forensic Accounting And Fraud Examination

Credit Hours: 3.00. This course is designed to help students apply their accounting, auditing, information systems and communication skills to detect financial fraud and unauthorized reporting acts to prepare and present a fraud case for criminal proceedings or civil litigation. These skills are highly valued in the rapidly growing field of forensic accounting. Upon completing this course, students will understand the role of forensic accountants in examining financial records for fraud and detecting insurance fraud; in providing litigation support; and in capturing digital evidence. This course will also review material related to the Certified Fraud Examiner (CFE) exam. Throughout the course, students will have opportunities to improve their written and oral communication skills, particularly as they relate to communication in the legal settings associated with investigating accounting. Typically offered Fall Spring.

MGMT 59000 - Directed Readings In Management

Credit Hours: 1.00 to 4.00 (West Lafayette, North Central) 2.00 to 4.00 (Calumet) Supervised reading and reports in various subjects. Open only to a limited number of seniors and graduate students. Permission of instructor required. Typically offered Fall Spring Summer.

Take 5 classes from selected lists of Management courses and courses in communication, ethics, leadership and general education

Note
Students are encouraged to take multiple internships (particularly one in spring semester of their fourth year) and study abroad. For those students seeking a position in public accounting, you are encouraged begin taking a CPA exam review course in their last semester before graduation (or in the summer following graduation).

Program Requirements

1. Candidates for the Certificate will be undergraduate accounting majors and will complete at least 150 credit hours, consisting of the coursework that makes up the undergraduate accounting major and the additional 27 credit hours of coursework for the Certificate as detailed below.

2. Candidates for the Certificate will take four 3-credit accounting electives from the following list: MGMT 50700 - Advanced Federal Income Taxes, MGMT 50900 - International Accounting, MGMT 53000 - Financial Statement Analysis, MGMT 53100 - Government/Not-For-Profit Accounting, MGMT 53200 - Forensic Accounting And Fraud Examination, MGMT 59000 - Directed Readings In Management and other advanced accounting electives as offered. Candidates must earn a grade of C or better in each accounting course that they wish to count towards the Certificate.

3. Candidates for the Certificate will take 5 classes from the following two lists, with a minimum of 2 classes from each list.

List A

**MGMT 41100 - Investment Management**

Credit Hours: 3.00. Examination of investment alternatives relevant to the individual and/or family-unit investor. Operations of the markets in which securities are traded. Theory and application of security valuation, portfolio construction, capital markets, and performance evaluation. Particular attention given to fixed income securities, common stocks, options, investment companies, and other popular investment alternatives. Typically offered Fall Spring.

**MGMT 41300 - Corporate Finance**

Credit Hours: 3.00. The course provides the theoretical and problem-solving tools needed in entry-level financial analysis positions in a corporate, commercial lending, or investment banking setting. Topics include corporate valuation, cash flow forecasting, project evaluation, capital structure, dividend policy, capital acquisition, and mergers/acquisition. Typically offered Fall Spring.

**MGMT 41500 - International Financial Management**

Credit Hours: 3.00. The course explores financial decision making in an international framework from the perspective of the management of a multinational corporation. Topics covered include the international financial markets, the measurement and management of exchange risk and political risk, and the financial aspects of the decision to set up cross-border operations. Typically offered Fall Spring.

**MGMT 45800 - The Regulatory Process, Consumerism, And Public Policy**

Credit Hours: 3.00. A legal analysis of the administrative process and regulatory agencies as they influence business decisions.
Included will be a discussion of (1) concepts of the regulatory process from legal, economic, and social aspects; (2) administrative agencies and regulatory process; (3) legal and social implications of consumerism movement; and (4) impact of antitrust legislation on business decisions and conduct. Typically offered Summer Fall Spring.

**MGMT 45900 - International Management**

Credit Hours: 3.00. This course focuses on the challenges top managers face in developing strategies and management policies in multinational corporations (MNCs). Major topics usually covered include foreign market entry strategies, motivations and organizational challenges of internationalization, analyzing global industries, managing MNC/host government relations, building competitive advantage in global industries, international alliances and acquisitions, structuring and controlling MNCs, risk management, and the country manager role. Typically offered Spring.

**MGMT 49000 - Problems In Industrial Management**

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.

**ECON 36100 - Antitrust And Regulation**

Credit Hours: 3.00. The course studies the influence of laws and regulations on the behavior of firms, focusing on two types of government intervention in the market: antitrust law and economic regulation. Antitrust laws define the rules by which firms must compete. Economic regulation more tightly constrains the actions of firms, requiring that they obtain approval to set prices and/or enter new markets. The focus is on current topics in both areas, including comparison of U.S. practice with that of European Union and elsewhere. Typically offered Spring.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**ECON 37100 - International Monetary Problems**

Credit Hours: 3.00. A mixture of lectures and case discussions covering historical changes in the world's monetary system, problems with balance of payments adjustments, exchange rates and foreign exchange markets, international capital markets and financial flows, the international transmission of business fluctuations, monetary and fiscal policy in an interdependent world, and crises in developing countries. Typically offered Spring.

**ECON 38000 - Money And Banking**
Credit Hours: 3.00. The course analyzes the economics of money, monetary systems, investments, and financial intermediaries in modern industrial economies. Topics considered include the origin of money and the banking industry, financial asset markets, the role of central banks, and the effects of various monetary policies. The theory will be presented side by side with current economic and financial news, and the students will learn how to track financial and economic data via The Wall Street Journal. Typically offered Fall Spring.

**ECON 38500 - Labor Economics**

Credit Hours: 3.00. The purpose of this course is to introduce important topics, theories, institutions, and policy issues relating to the functioning of labor markets. Topics to be considered include labor supply decisions, investments in human capital, compensating wage differentials, labor contract theory, unions, compensation programs, signaling in labor markets, the economics of unemployment, and government employment, retirement, and workplace safety. Typically offered Fall Spring.

**ECON 45100 - Game Theory**

Credit Hours: 3.00. In the course, economic, political, and social interactions are represented as games, in which strategies and resulting outcomes can be analyzed. The analysis of these interactions is then used to demonstrate how one can make optimal decisions under uncertainty. Typically offered Fall Spring.

**ECON 46100 - Industrial Organization**

Credit Hours: 3.00. This course examines the determinants of firm and market structure and the resulting market performance in imperfectly-competitive markets. Advanced topics include advertising, research and development, imperfectly competitive international markets, and market integration. Emphasis is placed on using theoretical models of firm and industry behavior to explain and analyze real-world examples of firm behavior. Typically offered Fall.

**ECON 47100 - Behavioral Economics**

Credit Hours: 3.00. Students learn about human behavior in economic environments, with a strong emphasis on classroom laboratory exercises. Topics considered include behavior in a variety of markets - for example, markets with price controls, markets for financial assets and auction markets -- and behavior in social dilemmas that arise when people try to provide public goods voluntarily or when sellers try to conspire to fix prices. Students will also learn how people bargain with, trust each other, and show social preferences towards others. Decision-making and anomalies for risky and uncertain choices will also be covered. Typically offered Fall Spring.

**List B**

**COM 31400 - Advanced Presentational Speaking**
Credit Hours: 3.00. Development of a marked degree of skill in the composition and delivery of various types of speeches including presentations in corporate board rooms, orientation meetings, banquet halls, public forms. Special emphasis on speeches related to the student's major vocational area. Typically offered Fall Spring Summer.

COM 31800 - Principles Of Persuasion

Credit Hours: 3.00. Persuasion and its effects, ranging from individual influences to societal impacts. Various perspectives and models of persuasion are examined, including classical and modern approaches. Both theoretical and pragmatic considerations are introduced. Typically offered Fall Spring Summer.

COM 32500 - Interviewing: Principles And Practice

Credit Hours: 3.00. Theory and practice of methods in selected interview settings: informational, employment, and persuasive. Emphasis on communication between two persons, questioning techniques, and the logical and psychological bases of interpersonal persuasion. Typically offered Fall Spring Summer.

OLS 27400 - Applied Leadership

Credit Hours: 3.00. Introduction to applied leadership in the context of organizational functions, structures, and operation. Typically offered Fall Spring Summer.

PHIL 11100 - Ethics

Credit Hours: 3.00. A study of the nature of moral value and obligation. Topics such as the following will be considered: different conceptions of the good life and standards of right conduct; the relation of nonmoral and moral goodness; determinism, free will, and the problem of moral responsibility; the political and social dimensions of ethics; the principles and methods of moral judgment. Readings will be drawn both from contemporary sources and from the works of such philosophers as Plato, Aristotle, Aquinas, Butler, Hume, Kant, and J. S. Mill. Typically offered Summer Fall Spring. CTL:ISH 1051 Ethics

PHIL 12000 - Critical Thinking

Credit Hours: 3.00. This course is designed to develop reasoning skills and analytic abilities, based on an understanding of the rules or forms as well as the content of good reasoning. This course will cover moral and scientific reasoning, in addition to ordinary problem solving. This course is intended primarily for students with nontechnical backgrounds. Typically offered Summer Fall Spring.

PHIL 15000 - Principles Of Logic

Credit Hours: 3.00. A first course in formal deductive logic; mechanical and other procedures for distinguishing good arguments
from bad. Truth-tables and proofs for sentential (Boolean) connectives, followed by quantificational logic with relations. Although metatheoretic topics are treated, the emphasis is on methods. Typically offered Summer Fall Spring.

**POL 10100 - American Government And Politics**

Credit Hours: 3.00. A study of the nature of democratic government, the U.S. Constitution, federalism, civil rights, political dynamics, the presidency, Congress, and the judiciary. Typically offered Summer Fall Spring. CTL:ISH 1002 American Government

**SOC 31200 - American Society**

Credit Hours: 3.00. An exposure to sociology, focused on American sociology and society (the U.S.), recommended for juniors and seniors who are not sociology or law and society majors. Students with freshman standing or who have had SOC 10000 may not enroll in this class without special permission. Typically offered Fall Spring.

**Summary of Accounting Electives Available to Certificate Students as of the 2014-2015 Academic Year**

For more information, please contact the course instructor or visit the Accounting Academic Group web site.

**Entrepreneurship and Innovation Certificate**

**Requirements**

Purdue's Certificate in Entrepreneurship and Innovation Program is designed with flexibility in mind. Participating students must take the equivalent of five, 3-credit courses in the following categories:

- Two required "core" courses (6 credits)
- Two "option" courses (typically 6 credits)
- One "capstone" course or experience (typically 3 credits)

In some cases, students will be permitted to substitute an additional capstone for one of the required option courses. A grade of C- or higher is required for certificate-related courses.

**Two Required Courses**

The intent of required core courses is to provide students with fundamental language, knowledge, leadership and communication skills related to entrepreneurship and innovation. The content in these courses answer the questions "what is entrepreneurship" and "how do you do entrepreneurship". Required core courses are offered solely by the Certificate in Entrepreneurship and Innovation.

Click here to learn more about ENTR 20000 - Introduction To Entrepreneurship And Innovation and ENTR 31000 - Marketing And Management For New Ventures.
Option Courses

The intent of option courses is to provide students with discipline or industry/market-specific depth in areas which are relevant to entrepreneurship and/or innovation. The content of ENTR 20000 and ENTR 31000 should be relevant to these courses, and complement or enhance the learning. Option courses are offered by departments across the university as well as the Certificate in Entrepreneurship an Innovation.

Options courses should deliver knowledge and skills that accomplish one or more of the following:

- Deepen students’ understanding of areas pertinent to entrepreneurship that will improve their chances of success in creating new business ventures (e.g. leadership, professional selling, new product development, technology strategy).
- Build awareness of opportunities for venture development in specific industries or markets.
- Increase students’ ability to create economic or social value in an entrepreneurial way.
- Allow students to expand the markets in which they will operate (e.g. business language courses, global entrepreneurship programs).

Students can choose option courses from the approved course list found below. Click here to learn more about an option course developed by the Certificate in Entrepreneurship an Innovation.

Capstone Course or Experience

The intent of capstone courses or experiences is to provide students with hands-on, real-world entrepreneurial or innovation related experiences, which can include developing business plans for new business ventures, involvement in the product innovation and technology commercialization process, or an approved internship in an early-stage company. Capstone courses and experiential programs are offered by departments across the university as the Certificate in Entrepreneurship and Innovation.

Capstone courses or experiences should provide closure and coherence to the Certificate in Entrepreneurship and Innovation Program and include one or more of the following:

- Culminating experiences in which students are expected integrate and apply knowledge from previous ENTR and option courses.
- Launching pads for new products or new business ventures.
- Marketable experiences to prospective employers.

Skills utilized and assessed should include the ability to:

- Work constructively in groups and on teams.
- Understand theories and perspectives of the discipline.
- Identify and assess opportunities.
- Use library and other resources to perform research.
- Evaluate critically what is read and heard.
- Demonstrate high order thinking.
- Make reasoned decisions.
- Communicate persuasively.

Possible capstones include:

- Involvement in launching your own venture through the Entrepreneurship Capstone course (ENTR 48000). [Prerequisites: ENTR 20000 and ENTR 31000]
- Consulting for Emerging Enterprises through the Entrepreneurship Capstone course. (ENTR 48000 *special section/instructor approval required). [Prerequisites: ENTR 20000 and ENTR 31000]
- Internships through the Interns for Indiana Program.
Global Entrepreneurship study-abroad program organized and led by Certificate Program faculty and staff (SA 10705). Students can choose capstone courses from the approved course list found below. Click here to learn more about capstone courses offered by the Certificate in Entrepreneurship and Innovation.

Program Requirements

Students must take the equivalent of five courses in the following categories:

Two Required Core Courses (6 credits)

**ENTR 20000 - Introduction To Entrepreneurship And Innovation**

Credit Hours: 3.00. A survey course designed to introduce students to the concept of entrepreneurship and the commercialization of new technology, its importance in the world economy, and related career options. Students completing this course will understand entrepreneurial roles and possibilities, begin developing required skills required of successful entrepreneurs, including leadership and basic business skills, and will develop a sense of their own aptitude for entrepreneurial endeavors, thereby allowing an informed decision regarding the pursuit of the full 15 credit Certificate in Entrepreneurship and Technology Innovation. Typically offered Fall Spring.

**ENTR 31000 - Marketing And Management For New Ventures**

Credit Hours: 3.00. Second in a two course sequence designed to develop a foundation of basic skills in the areas of entrepreneurship and innovation. Students completing this course will gain greater depth in areas essential to the creation and management of new ventures, including marketing and selling, finance and accounting, project management leadership, team building and ethics. Typically offered Fall Spring.

Two Option Courses (typically 6 credits)

Option courses provide depth in specific disciplines or industries relevant to entrepreneurship and innovation.

Courses designated "OPEN" on the approved list are available to all certificate program students, where space permits and pre-requisites have been met.

One Capstone Course or Experience (typically 3 credits)

Capstones are designed to provide hands-on, real-world experience to students. This can include courses or participation in the Interns for Indiana/Interns for Entrepreneurship Program.

Students will be permitted to substitute an additional capstone for one of the required option courses.

The Process

To enter the Program students should enroll in ENTR 20000. Those interested in receiving the Certificate will fill out a Completion Plan when enrolled in ENTR 31000.
Grade of C- or higher must be obtained in all courses used toward Certificate Completion.

Required Entrepreneurship Courses

**ENTR 20000 - Introduction To Entrepreneurship And Innovation**

Credit Hours: 3.00. A survey course designed to introduce students to the concept of entrepreneurship and the commercialization of new technology, its importance in the world economy, and related career options. Students completing this course will understand entrepreneurial roles and possibilities, begin developing required skills required of successful entrepreneurs, including leadership and basic business skills, and will develop a sense of their own aptitude for entrepreneurial endeavors, thereby allowing an informed decision regarding the pursuit of the full 15 credit Certificate in Entrepreneurship and Technology Innovation. Typically offered Fall Spring.

**ENTR 31000 - Marketing And Management For New Ventures**

Credit Hours: 3.00. Second in a two course sequence designed to develop a foundation of basic skills in the areas of entrepreneurship and innovation. Students completing this course will gain greater depth in areas essential to the creation and management of new ventures, including marketing and selling, finance and accounting, project management leadership, team building and ethics. Typically offered Fall Spring.

Other Entrepreneurship Courses

**ENTR 39000 - Special Topics In Entrepreneurship And Innovation**

Credit Hours: 1.00 to 3.00. The requested course will provide the opportunity to develop courses which fulfill the "option" course requirement for the Certificate in Entrepreneurship and Innovation Program. Option courses are designed to provide depth in certain disciplines related to entrepreneurship and innovation, and/or entrepreneurship and innovation in relation to specific industries or markets. Typically offered Summer Fall Spring.

**MGMT 39000 - Junior Level Problems In Management**

Credit Hours: 0.00 to 4.00. The Accounting Internship provides work experience in businesses or other institutions. Permission of instructor required. Typically offered Fall Spring Summer.

**ENTR 46000 - Interns For Indiana Seminar**
Credit Hours: 1.00. Must be selected to participate in the Interns for Indiana Program and be matched with a Summer, Fall, or Spring internship placement. The purpose of this 1-credit seminar is to provide an academic underpinning to the internship experience. It provides the context for student interns to reflect on experiences at an internship site and link those experiences to study in the student's major as well as the business, social, economic and intellectual forces that shape our views and work experiences. The intent is to augment the internship experience. Typically offered Fall Spring Summer.

**ENTR 47000 - Women And Leadership**

Credit Hours: 3.00. This course is designed to expose advanced undergraduate students to the topic of women leaders. The first half of the class will cover the social and historical perspective of women in leadership and second half of the course will cover practical skills that women leaders can use to develop their leadership skills. This class will be team taught and the course will largely be based on class discussion. The readings will consist of articles from various publications, including the Harvard Business Review and The Wall Street Journal in order to expose students to important publication that business leaders often read regularly. Assignments will include a research paper, a book review, and leading class discussion. Typically offered Fall Spring.

**Entrepreneurship Capstone Courses & Experiential Programs**

**ENTR 46100 - Interns For Indiana Experience**

Credit Hours: 0.00. Internship work experience through Interns for Indiana Program with cooperation of participating employers. Students submit a summary report and company evaluation. Through a mutual selection process, students may be placed as interns with entrepreneurial companies. Placements are determined through a screening process based upon students' skills and experiences gained through their major fields of study. Fulfills a capstone requirement for the Certificate in Entrepreneurship and Innovation Program. Permission of department required. Typically offered Fall Spring Summer.

**ENTR 48000 - Entrepreneurship Capstone**

Credit Hours: 3.00. The requested course will provide the opportunity to develop capstone courses for the Certificate in Entrepreneurship and Innovation Program. Capstone courses are designed to provide students with the opportunity to apply the knowledge acquired in Certificate Program "core" and "option" courses to hands-on, real world activities related to entrepreneurship and innovation. Typically Fall Spring.

**ENTR 48100 - Consulting For Emerging Enterprises**

Credit Hours: 3.00. In this course, students are put into student teams and conduct an actual consulting engagement with a local entrepreneurial firm or non-profit for the semester. The course enables students to develop skills in consulting as well as to reinforce and hone their knowledge in entrepreneurship. The consulting engagement utilizes a three-stage model intended to guide teams as they contract, gather data, and ultimately create value for the entrepreneurial enterprise through a set of recommendations. Classroom time is focused on learning key consulting skills which are then applied directly in the consulting engagement. Permission of Instructor required. Typically offered Fall Spring.
ENTR 48200 - Venture Planning Capstone

Credit Hours: 3.00. This course serves as a capstone experience where students apply the knowledge and skills used in previous entrepreneurship courses to the business planning process required for new venture development. Students learn how to critique business plans and use practical research tools and appropriate analytical approaches to work through components of plans of their own. The goals of and audiences for business plans are examined. Throughout the semester, student teams present ideas to both peers and experts from the community who provide feedback and insight into what it takes to start a successful business. Typically offered Fall Spring.

- Global Entrepreneurship Study Abroad

Additional Approved Experiential Programs (Study Abroad & Internships)

- Tec de Monterrey, Mexico - Contact Glenda at gcaudill@purdue.edu
- DIS Copenhagen, Copenhagen, Denmark - Contact Glenda at gcaudill@purdue.edu
- GEM Trailblazer Summer NTU Singapore, Tracks 2 and 4 - Contact April Robillos at robillos@purdue.edu
- Universitas Bocconi, Milan, Italy, Purdue Exchange - Contact Glenda at gcaudill@purdue.edu
- University College Dublin's Quinn, Sch. of Business, Dublin, Ireland - Contact Glenda at gcaudill@purdue.edu
- Tilburg University Summer School Entrepreneurship Prgrm - Contact Glenda at gcaudill@purdue.edu
- Discovery Park Undergraduate Research Internship - For more information, contact Lisa Kirkham at lkirkham@purdue.edu
- Cancer Prevention Internship Program - For more information, contact Amy Childress at childres@purdue.edu

Agriculture

AGEC 33000 - Management Methods For Agricultural Business

Credit Hours: 3.00. Management of nonfarm, agriculturally related businesses. Topics include tools for management decision making, legal forms of business organization, basics of accounting, and important financial management techniques. Case studies and computer simulation game. Typically offered Fall Spring.

AGEC 33100 - Principles Of Selling In Agricultural Business

Credit Hours: 3.00. The principles of salesmanship and their application to the agricultural business. Topics include attitudes and value systems, basic behavioral patterns, the purchase decision process, relationship of sales to marketing, selling strategies, preparing for sales calls, making sales presentations, handling objections, and closing sales. Emphasis is placed on application of principles to real-world situations and on building selling skills through class projects. Requires class trips. Students will pay individual lodging or meal expenses when necessary. Typically offered Fall Spring.

AGEC 42400 - Financial Management Of Agricultural Business
Credit Hours: 4.00. A study of the major types of financial decisions made by agriculturally related firms, including investment in inventory, receivables and cash, property, plant, and equipment; sources and types of short-term, intermediate, and long-term capital; legal patterns of the business organization, emphasis on implementation involving agribusiness case problems. Typically offered Fall Spring.

**AGEC 32700 - Principles Of Food And Agribusiness Marketing**

Credit Hours: 3.00. This course is a study of the major components of marketing decisions made by food and agribusiness firms. The course examines the marketing process, market research, marketing opportunities, and marketing strategies. Students will work on developing skills for evaluating and making marketing decisions. Typically offered Fall Spring.

**AGEC 42700 - Advanced Agribusiness Marketing**

Credit Hours: 3.00. Application of marketing principles to market planning, research, and analysis. Development of strategic marketing plans for agribusiness. Typically offered Fall.

**AGEC 42900 - Agribusiness Marketing Workshop**

Credit Hours: 2.00. Research, development, and presentation of a strategic agribusiness marketing plan. Permission of instructor required. Typically offered Spring.

**AGEC 43000 - Agricultural And Food Business Strategy**

Credit Hours: 3.00. An advanced course in business planning and strategy for potential agribusiness and food firm managers. Focuses on development of viable business strategy in the context of the firm's market and its internal condition. Makes extensive use of case studies that document management dilemmas of agribusiness firms, ranging from those providing inputs to agricultural producers to firms involved in the retail distribution of food. Typically offered Fall Spring.

**AGEC 53000 - Strategic Agribusiness Management**

Credit Hours: 3.00. Addresses issues in the strategic management of agricultural and food businesses. Emphasis is on developing a framework for formulating strategy, making strategic choices in a variety of business environments, and implementing strategy. Extensive use of management case studies and a major term project with an agribusiness firm focus on developing managerial problem-solving skills. Typically offered Fall.

**AGR 49000 - Special Problems**

Credit Hours: 0.00 to 3.00. Topics and credit hours to be arranged. Typically offered Fall Spring Summer.
ANSC 44000 - Horse Management

Credit Hours: 3.00. Current breeding, feeding, housing, selection, disease control, and other management practices essential for sound economic planning of horse operations in today's horse industry. Laboratory farm visits provide students with real application examples and industry contacts. Typically offered Fall.

ANSC 49400 - Animals And Food Security: International Services Learning

Credit Hours: 1.00 to 4.00. This course prepares students for a service learning international experience and includes the planning of the trip, the actual trip and a reflective learning post-trip class. The course is a partnership between Purdue Animal Sciences, a host university and their students, a local community organization, and an international community development, NGO. The core of the experience is the faculty-led international service learning course where students live and work in villages in a developing country. Students will learn extension methodologies and how to contribute to sustainable projects. Students will be expected to work in bi-national teams across agricultural and community disciplines to not only contribute to the communities served but to apply their classroom knowledge and experience to make a difference in the community. AGEC 43000 - Agricultural And Food Business Strategy is a highly recommended prerequisite. Prerequisites: Multicultural Awareness course (COA list). Permission of instructor required. Typically offered Fall Spring Summer.

ASM 49400 - Project Planning And Management

Credit Hours: 1.00. Discussion of topics relevant to project planning and execution in industry, including technical communication, budgeting, team management, intellectual property, and timelines. Student teams will develop project proposal to address contemporary issues in agricultural systems management. Typically offered Fall.

ABE 49500 - Select Topics In Agricultural And Biological Engineering

Credit Hours: 1.00 to 3.00. Credit and hours to be arranged. Special topics and projects of contemporary importance or of special interest that are outside the scope of the standard agricultural and biological engineering curriculum. The specific topic that is offered will be indicated on the student's record. A written report and oral presentation of final results are required. Permission of instructor required. Typically offered Fall Spring Summer.

FS 44300 - Food Product Design (Capstone)

Credit Hours: 3.00. Teams develop a new product from concept through marketing. Final case study defense is presented to faculty and peers. Classes include guest lectures from the food industry. Typically offered Spring.

HORT 43500 - Principles Of Marketing And Management For Horticultural Businesses

Credit Hours: 4.00. Principles of marketing and business management in the horticultural industries; market organization,
performance, and planning; financial planning, pricing, promotion, cost control, and legal aspects of retailing. Case studies in direct farm, floral, and garden center management. Typically offered Fall.

**HORT 44500 - Strategic Analysis Of Horticultural Production And Marketing**

Credit Hours: 1.00. Based on an approved work experience at a commercial horticultural enterprise, students will explore the management, operational and horticultural setting and strategies used by that enterprise and then submit a comprehensive Enterprise Analysis. A computer-aided oral presentation based on specific aspects of the enterprise and the student's work experience is also required. Typically offered Spring.

**HORT 42500 - Landscape Horticulture Capstone Project**

Credit Hours: 3.00. Individuals or teams of students will work with local governments, community service agencies or not-for-profit organizations on projects in which students address problems of landscape planting design, landscape installation, and/or landscape management. The supervising faculty advisory committee will identify projects. Under the mentorship of the advisory committee, students will work closely with the sponsoring client entity to define the problem and participate in creating and/or implementing solutions. At project completion, oral presentations will be made to clients to supplement a written project report. Open only to graduation candidates majoring in Landscape Horticulture and Design. Typically offered Fall Spring.

**YDAE 49100 - Special Topics In Youth Development And Agricultural Education**

Credit Hours: 1.00 to 3.00. Designed for specialized topic areas for which there is no specific course, but have enough student interest to justify formalized teaching of an undergraduate-level course. The course may be repeated by a student as long as the topic being taught is not repeated. The specific topic that is offered will be indicated on the student's record. To be arranged with the instructor or departmental representative prior to registering. Permission of instructor required. Typically offered Summer Fall Spring.

**Education**

**EDPS 30000 - Student Leadership Development**

Credit Hours: 1.00 to 3.00. Leadership in students is developed through lectures and experiential activities. Topic areas include leadership styles; campus organizational structures; program planning; social and intellectual activities; human relations and cultural differences; motivation; team building; public relations. Permission of instructor required. Typically offered Fall Spring.

**Engineering**

**ABE 48400 - Project Planning And Management**
Credit Hours: 1.00. Review of topics relevant to project planning and execution in industry, including technical communication, budgeting, team management, intellectual property rights, contracts and timelines. Students will select a Capstone project and assemble a project proposal within a team environment. Typically offered Fall.

**ABE 48600 - Agricultural Engineering Design**

Credit Hours: 3.00. Review of topics relevant to project planning and execution in industry, including technical communication, budgeting, team management, intellectual property rights, contracts and timelines. Students will select a Capstone project and assemble a project proposal within a team environment. Typically offered Spring.

**ASM 49400 - Project Planning And Management**

Credit Hours: 1.00. Discussion of topics relevant to project planning and execution in industry, including technical communication, budgeting, team management, intellectual property, and timelines. Student teams will develop project proposal to address contemporary issues in agricultural systems management. Typically offered Fall.

**ASM 49500 - Agricultural Systems Management Capstone Project**

Credit Hours: 3.00. Planning, organization, and analysis of individual or team projects related to contemporary issues in agricultural systems management. Typically offered Spring.

**ABE 48500 - Agricultural Engineering Project Management And Design**

Credit Hours: 4.00. Review of information relative to project planning and execution in industry, including budgeting, intellectual property rights, contract and timelines. Machine or system environmental design projects, team or individual, related to contemporary or potential problems in agricultural engineering. Typically offered Fall Spring Summer.

**ABE 55700 - Transport Operations In Food And Biological Systems II**

Credit Hours: 3.00. Course includes analysis and design of operations, such as dehydration, fermentation, and separation processes. Development of experimental designs, integration of pilot plant results into the design, operation and scale-up process systems. Emphasis on how the properties of biological materials influence the quality of the processed product. Typically offered Fall.

**ABE 55800 - Process Design For Food And Biological Systems**

Credit Hours: 3.00. This course will focus on the design, synthesis, creation, evaluation, and optimization of processes to convert basic biological materials into a finished product. Concepts of materials and energy balances, thermodynamics, kinetics, transport phenomena of biological systems will be used to design processes to minimize energy and environmental impacts, and evaluate
economic factors while maintaining product quality. Course will include group projects, oral and written reports. Typically offered Fall.

**ABE 59100 - Special Topics**

Credit Hours: 0.00 to 4.00. Primarily designed for students (two or more) desiring credit from subject areas for which no specific course, workshop, or individual study plan is offered. Area of study will deal with topics that have enough student interest to justify the formalized teaching of a specialized topic. The course may be repeated by a student as long as the topic being taught is not repeated. Permission of instructor required. Typically offered Fall Spring Summer.

- ABE 59100 - Special Topics Biological foundations for bioMEMS and bionanotechnology

**AAE 25100 - Introduction To Aerospace Design**

Credit Hours: 3.00. The role of design in aerospace engineering. Introduction to aerodynamics, performance, propulsion, structures, stability and control, and weights. Layout and general arrangement of aerospace vehicles. Design concept generation and selection. Computational methods for design. Trade studies and graphical optimization. Conceptual design exercise involving aircraft, spacecraft, or both. Technical presentations and communication for aerospace engineering. Typically offered Fall Spring.

**AAE 35103 - Aerospace Systems Design**

Credit Hours: 3.00. Aerospace system lifecycle and design process. Stakeholder needs elicitation and requirements generation. Quality function deployment and hierarchical objective trees. Concept generation and creativity techniques. Introduction to safety, risk, cost and value analysis. Critical evaluation of the applicability of systems engineering techniques in specific contexts. Application of these techniques to a team semester design project. Typically offered Spring.

**AAE 45000 - Spacecraft Design**

Credit Hours: 3.00. Senior students perform a team-based spacecraft design, requiring application of the education and skills developed in the aerospace curriculum. Components include analysis methods for preliminary design, development of an initial vehicle concept, and development of a complete numerical model of the mission, culminating in oral and written reports by the teams. Typically offered Fall Spring.

**AAE 45100 - Aircraft Design**

Credit Hours: 3.00. Senior students perform a team-based aircraft design, requiring application of the education and skills developed in the aerospace curriculum. Aircraft mission requirements include engine cycle selection and airframe/engine integration, performance, stability and control, structures, human factors, avionics, sensors, and manufacturing processes. The teams present oral and written reports on their designs. Typically offered Fall Spring.

**AAE 45400 - Design Of Aerospace Structures**
Credit Hours: 3.00. Design/failure criteria for aerospace structures, materials selection, introduction to manufacturing methods, structural assemblies, component details, concurrent engineering, and interdisciplinary design teams. Typically offered Fall.

**AAE 53500 - Propulsion Design, Build, Test**

Credit Hours: 3.00. Intensive one-semester treatment of the aerospace propulsion component development process. Derivation of design requirements from mission objective to detailed components; the design process. Standard methods for thermostructural, life, performance, and combustion stability design analysis; combustor design. Experimental procedures; fabrication; test. Special topics according to student interest. Typically offered Spring.

**BME 48800 - Preliminary Senior Project Design**

Credit Hours: 1.00. The preliminary stages of design are completed during these lab hours. Students will work with their teammates to develop a problem statement with appropriate technical specifications, complete the relevant literature and market analysis, derive and justify a preliminary design, and outline a plan to successfully complete the project. The resulting preliminary design is presented and evaluated through an oral presentation and a written report. Typically offered Fall.

**BME 48900 - Senior Design Project Lab**

Credit Hours: 2.00. The biomedical engineering design process is completed starting from a preliminary system design. Students will work with their teammates to implement (e.g. build, test, iterate and evaluate) a solution to address a biomedical engineering problem statement and meet the technical specifications set forth. The resulting project design is presented and evaluated through an oral presentation, laboratory demonstration, and a final written document. Typically offered Fall Spring.

**BME 49000 - Professional Elements Of Design**

Credit Hours: 1.00. This course advances and enhances design tools, concepts, and knowledge relevant to biomedical engineering design. Students work individually and in small teams to investigate the topic within the context of their specific senior design project in preparation for their lab. Topics include project management, human and animal subjects, ethics, regulatory affairs, literature and patent searching, and entrepreneurship. Typically offered Fall.

**CE 35500 - Engineering Environmental Sustainability**

Credit Hours: 3.00. (EEE 35500) An introduction to the examination of global-scale resource utilization, food, energy and commodity production, population dynamics, and their ecosystem impacts. Typically offered Spring.

**EEE 35500 - Engineering Environmental Sustainability**
Credit Hours: 3.00. (CE 35500) An introduction to the examination of global-scale resource utilization, food, energy and commodity production, population dynamics, and their ecosystem impacts. Typically offered Fall Spring.

CE 52100 - Construction Business Management

Credit Hours: 3.00. Develops students' understanding of the fundamental theories and applied principles of management of U.S. construction companies. Exposes students to the present and future practice of business management at the construction company level. Provides insight into basic construction business operations including strategic planning, organizational structure, marketing, accounting, financing, risk analysis, quality, and international construction business practice. Typically offered Fall.

CE 52400 - Legal Aspects In Engineering Practice

Credit Hours: 3.00. Legal principles and landmark cases relevant to engineering. Subjects covered include contracts, torts, agency, real property, environmental and labor laws, expert testimony, arbitration, patents and copyrights, sureties and ethics. Three evenings may be required. Typically offered Fall Spring.

CE 59700 - Civil Engineering Projects

Arrange Hours and Credit. Hours and credits to be arranged. Permission of instructor required. Typically offered Fall Spring Summer.

CHE 45000 - Design And Analysis Of Processing Systems

Credit Hours: 4.00. Use of process synthesis methods and concepts; detailed design of unit operation equipment, the economics of chemical plants and flow sheet optimization methods. Synthesize, develop, and evaluate a preliminary design of a chemical process that meets market requirements for a specific product. Analysis of design alternatives using case studies and optimization methods. Typically offered Spring.

ECE 27900 - Sophomore Participation In Vertically Integrated Projects In Electrical And Computer Engineering

0 or 2.00. This course provides an opportunity for undergraduate students to explore and develop comprehensive applications of electrical and computer engineering technologies, especially as they relate to active research areas of Purdue faculty members. Students will learn about the underlying research, and will work on teams to formulate applications of the research that address real-world needs. Students will attend a weekly lecture that provides an introduction to a broad range of applicable technologies and development tools - some associated with the activities of specific teams, and some addressing topics of more general value to students enrolled in the course. Typically offered Fall Spring.
ECE 37900 - Junior Participation In Vertically Integrated Projects (VIP) In Electrical And Computer Engineering

Credit Hours: 1.00 or 2.0. This course provides an opportunity for undergraduate students to explore and develop comprehensive applications of electrical and computer engineering technologies, especially as they relate to active research areas of Purdue faculty members. Students will learn about the underlying research, and will work on teams to formulate applications of the research that address real-world needs. Students will attend a weekly lecture that provides an introduction to a broad range of applicable technologies and development tools - some associated with the activities of specific teams, and some addressing topics of more general value to students enrolled in the course. Typically offered Fall Spring.

ECE 47900 - Senior Participation In Vertically Integrated Projects (VIP) In Electrical And Computer Engineering

Credit Hours: 1.00 or 2.0. This course provides an opportunity for undergraduate students to explore and develop comprehensive applications of electrical and computer engineering technologies, especially as they relate to active research areas of Purdue faculty members. Students will learn about the underlying research, and will work on teams to formulate applications of the research that address real-world needs. Students will attend a weekly lecture that provides an introduction to a broad range of applicable technologies and development tools - some associated with the activities of specific teams, and some addressing topics of more general value to students enrolled in the course. Typically offered Fall Spring.

ECE 49595 - Selected Topics In Electrical And Computer Engineering

Credit Hours: 1.00 to 5.00. Topics vary. Permission of department required. Typically offered Fall Spring Summer.

ECE 47700 - Digital Systems Senior Project

Credit Hours: 4.00. A structured approach to the development and integration of embedded microcontroller hardware and software that provides senior-level students with significant design experience applying microcontrollers to a wide range of embedded systems (e.g., instrumentation, process control, telecommunications, and intelligent devices). The primary objective is to provide practical experience developing integrated hardware and software for embedded microcontroller systems in an environment that models one which students will most likely encounter in industry. Permission of instructor required. Typically offered Fall Spring.

EEE 48000 - Environmental And Ecological Engineering Senior Design

Credit Hours: 1.00 to 3.00. Senior-level environmental and ecological engineering design projects. Projects will integrate knowledge and skills earlier in the degree program and stress the application of the design process to interdisciplinary environmental and/or ecological engineering systems. Typically offered Fall Spring.

- EPCS courses - EPICS Participation - Note: Total of 3 credits over 2 semesters.
- EPCS at the 40000 level - Senior Participation in EPICS - Total of 3 credit hours of 400 level over 2 semesters
IE 34300 - Engineering Economics

Credit Hours: 3.00. Cost measurement and control in engineering studies. Basic accounting concepts, income measurement, and valuation problems. Manufacturing cost control and standard cost systems. Capital investment, engineering alternatives, and equipment replacement studies. Not open to students with credit in CE 39400. Typically offered Summer Fall Spring.

IE 54500 - Engineering Economic Analysis

Credit Hours: 3.00. Analysis of engineering costs and capital investments. Applications of classical optimization, mathematical programming, and the theory of production to the analysis of investment proposals. Evaluation and selection of individual projects and formulation of capital investment programs. Typically offered Fall.

IE 54600 - Economic Decisions In Engineering

Credit Hours: 3.00. Topics in decision making and rationality including decision analysis, decision making under uncertainty, and various descriptive and prescriptive models from operations research, economics, psychology, and business. Applications are drawn from engineering decision making, public policy, and personal decision making. Attention also is paid to designing aids to improve decision making. Typically offered Spring.

IE 56600 - Production Management Control

Credit Hours: 3.00. Background and development of production management, plus current concepts and controls applicable to production management functions. Not open to Industrial Engineering students with a minor in management. Typically offered Fall Spring.

IE 59000 - Topics In Industrial Engineering

Credit Hours: 1.00 to 6.00. Selected topics in industrial engineering for seniors and graduate students. Permission of instructor required. Typically offered Spring Fall Summer.

IDE 48500 - Multidisciplinary Engineering Design Project

Credit Hours: 3.00. Capstone design experience for multidisciplinary engineering students. Physical system or process system design projects, related to contemporary or potential problems involving interdisciplinary teams of engineers. Permission of instructor required. Typically offered Spring.

ME 26300 - Introduction To Mechanical Engineering Design, Innovation And Entrepreneurship
Credit Hours: 3.00. The product design process. Development of product design specifications using customer inputs, benchmarking, product/market research and patent review. Concept generation and evaluation using brainstorming, functional decomposition, modeling and decision matrices. Detailed product design including assembly, economic analysis, CAD, and bill of materials. Oral and written design reviews. Key skills developed include teamwork, communication, project planning, innovation, design, and entrepreneurship. Typically offered Fall Spring.

**ME 44400 - Computer-Aided Design And Prototyping**

Credit Hours: 3.00. Introduction to advanced computer-aided design (CAD) for product design, modeling, and prototyping. Individual use and team-based environment to design and prototype a functional and marketable product. Projects include use of the advanced design tools to produce a working prototype that is manufacturable. Application to design, manufacturing, and analysis. Typically offered Fall Spring.

**ME 46300 - Engineering Design**

Credit Hours: 3.00. Application of the design process to the design of various engineering components and systems. Mathematical modeling in design is emphasized. Design problems from all areas of mechanical engineering are considered. Typically offered Fall Spring Summer.

**ME 49700 - Mechanical Engineering Projects**

Credit Hours: 1.00 to 6.00. Projects or special topics of contemporary importance or of special interest outside the scope of the standard undergraduate curriculum. Interested students seek a faculty advisor in their area of special interest and together prepare a brief description of the work to be undertaken. Permission of instructor required. Typically offered Fall Spring Summer.

**ME 55300 - Product And Process Design**

Credit Hours: 3.00. Fundamental principles of product and process design to produce a marketable product, develop a preliminary business strategy, and construct an operational prototype. Overview of relevant principles related to product and process design. Market analysis, design parameters, manufacturing prototype plan, production process plan, and a business strategy developed in teams. Broad overview of the entire product development process, including patents, commercialization of new technologies, and the highly interdisciplinary nature of product design through industry guest lectures. Impact of information technologies and the Internet on product design, prototyping, marketing, and customization. Product prototype is required. Design and product software information technology service-type concepts. Typically offered Spring.

**ME 55400 - Intellectual Property For Engineers**

Credit Hours: 1.00. Survey of the law of patents, trade secrets, trademarks, and copyrights, with special emphasis on the process of defining inventions broadly and diversely. Obtaining, registering, licensing, and litigation of intellectual property. Typically offered Spring.
MSE 59700 - Selected Topics In Materials Engineering

Arrange Hours and Credit. Hours and credits to be arranged. Permission of instructor required. Typically offered Fall Spring Summer.

NUCL 47000 - Fuel Cell Engineering

Credit Hours: 3.00. The principles of electromechanical energy conversion for a single fuel cell, fuel cell stack, process engineering in the fuel and oxidizer supply systems. Principles, components, operation and performance for alkaline, phosphoric acid, solid polymer, molten carbonate and solid oxide fuel cells. Provides broad insight into science, technology, system design, and safety concerns in design and operation of fuel cells. Typically offered Fall.

Health and Human Sciences

CSR 30900 - Leadership Strategies

Credit Hours: 3.00. Provides knowledge of humanistic processes that contribute to development of effective leadership. Typically offered Spring.

CSR 40600 - E-Retailing

Credit Hours: 3.00. To provide understanding of the technological and retail infrastructure that underlines doing retailing over the internet. Build an understanding of business strategies over the net. To identify management issues and consumer issues in e-retailing. Typically offered Fall.

HK 38500 - Methods Of Health Promotion And Education

Credit Hours: 3.00. Methods and materials of health promotion and education; preparation and use of content and materials related to health concerns of target populations. A variety of strategies and media are covered with theoretical and practical applications. Typically offered Fall Spring.

HK 42400 - Health And Fitness Program Management

Credit Hours: 3.00. Overviews major principles, competencies, and challenges involved in managing health, fitness, and sports organizations. Students will develop an understanding of the key considerations and skills needed to organize and manage human resources and facilities in health, fitness, and sport settings. Typically offered Fall Spring.
**HTM 31200 - Human Resources Management For The Service Industries**

Credit Hours: 3.00. The principles and practices of managing human resources for effective operations of hospitality and tourism businesses will be covered including: analysis and design of work, recruiting, selection, training and development, performance management, compensation, employee relations, and strategies for supporting organizational strategies. Typically offered Fall Spring.

**HTM 44100 - Financial Management For The Hospitality Industry**

Credit Hours: 3.00. This course deals with subjects and issues facing a hospitality financial manager. The primary purposes of this course are to understand the role of financial management, to learn analytic concepts and managerial tools to make capital investment decisions and to become familiar with major financial instruments and concepts such as time value of money, risk-return, bond and stock valuation, capital budgeting, cost of capital, capital structure and dividend policy. This course also handles hospitality-specific cases and readings for investments, capital structure, and dividends. Typically offered Fall.

**HTM 49900 - Feasibility Studies And Business Development In Hospitality And Tourism**

Credit Hours: 3.00. The study of business development. The course will cover all stages in the feasibility and development process. Emphasis will be on strategic planning, design of systems, models and problem analysis, leading to the opening of a successful hospitality or tourism business. Typically offered Fall Spring.

**Liberal Arts**

**COM 31400 - Advanced Presentational Speaking**

Credit Hours: 3.00. Development of a marked degree of skill in the composition and delivery of various types of speeches including presentations in corporate board rooms, orientation meetings, banquet halls, public forms. Special emphasis on speeches related to the student's major vocational area. Typically offered Fall Spring Summer.

**CHNS 22400 - Chinese Level IV Business Chinese**

Credit Hours: 3.00. Practical reading, writing, speaking, and listening comprehension skills directed towards use of Chinese for business purposes. Course materials cover daily business dealings as well as national and international trade, living conditions, environmental, cultural, and social problems. Typically offered Fall Spring.

**ENGL 42000 - Business Writing**

Credit Hours: 3.00. Workplace writing in networked environments for management contexts. Emphasizes organizational context,
project planning, document management, ethics, research, team writing. Typical genres include management memos, reports, letters, e-mail, resumes (print and online), oral presentations. Typically offered Summer Fall Spring.

**FR 22400 - French Level IV Business French**

Credit Hours: 3.00. Practical reading, writing, speaking, and listening comprehension skills will be developed toward use of French for business purposes. Course materials cover daily business dealings as well as national and international trade. Typically offered Fall Spring.

**FVS 26100 - Technical Video Production I**

Credit Hours: 3.00. The course introduces students to the principles and practice of professional video production. Through lectures, viewing, discussions, and laboratory exercises, students will acquire the tools necessary to transform their concepts, or those of their clients, into successful video productions. Film Video Studies majors have priority. Typically offered Fall Spring.

**FVS 44200 - Digital Film Production**

Credit Hours: 4.00. Students will gain knowledge of all phases of film production in the course of completing two short digital films. This class will emulate standard film industry practices and guidelines. Film Video Studies majors have priority. Typically offered Fall Spring.

**GER 42400 - Business German**

Credit Hours: 3.00. A study of the terminology and techniques used in commercial transactions, including the interpretation and writing of business materials. Development of the four language skills, with emphasis on writing and speaking. Typically offered Fall Spring Summer.

**GER 52400 - German For International Trade**

Credit Hours: 3.00. A broad spectrum of business and cultural materials to prepare students for work in international firms. Intensive study of technical terminology used in business transactions; stylistics in business correspondence and report writing; training for accurate oral expression in business negotiations. Typically offered Spring Fall.

**SPAN 42400 - Business Spanish**

Credit Hours: 3.00. A study of the terminology and techniques used in commercial transactions, including the interpretation and writing of business materials. Development of the four language skills, with emphasis on writing and speaking. Typically offered Fall Spring Summer.
Management

**MGMT 17500 - Information Strategies For Management**

Credit Hours: 1.00. Designed to build and sharpen students' information-gathering skills. Guides students in developing systematic methods for finding, evaluating, and presenting information. Organization and use of electronic and print tools will be explained through discussion, hands-on exercises, and homework assignments. Permission of instructor required. Typically offered Fall Spring.

**MGMT 30400 - Introduction To Financial Management**

Credit Hours: 3.00. Introductory course providing a foundation in corporate finance and covering topics such as: discounted cash flow valuation, bond valuation, equity valuation, option valuation, factors influencing a firm's cost of capital, and international finance issues. Typically offered Fall Spring.

**MGMT 39000 - Junior Level Problems In Management**

Credit Hours: 0.00 to 4.00. The Accounting Internship provides work experience in businesses or other institutions. Permission of instructor required. Typically offered Fall Spring Summer.

**ENTR 39000 - Special Topics In Entrepreneurship And Innovation**

Credit Hours: 1.00 to 3.00. The requested course will provide the opportunity to develop courses which fulfill the "option" course requirement for the Certificate in Entrepreneurship and Innovation Program. Option courses are designed to provide depth in certain disciplines related to entrepreneurship and innovation, and/or entrepreneurship and innovation in relation to specific industries or markets. Typically offered Summer Fall Spring.

**MGMT 42300 - New Product Development**

Credit Hours: 3.00. Provides an overview of the new product development process. Detailed insights are provided in the "fuzzy front end" of this process. Targeting positioning, and product decisions are also covered. The second half of the course completes the marketing mix and covers various market testing and product launch issues. Typically offered Fall Spring.

**MGMT 48400 - Management Of Entrepreneurial Ventures**

Credit Hours: 3.00. This course teaches skills required to become an entrepreneur, succeed in a start-up venture, work in venture capital, join a family business, or develop a franchise operation. Students will learn about how to identify and shape emerging
market opportunities, innovate new business models, prepare and evaluate business plans, raise capital, build a skilled founding team, network for resources, and grow an initial market. Typically offered Fall Spring.

**MGMT 48800 - Electronic Commerce And Information Strategies**

Credit Hours: 3.00. Discuss the new business models in electronic commerce that have been enabled by Internet technologies and analyze the impact these technologies and business models have on industries, firms and people. Typically offered Spring.

**MGMT 49000 - Problems In Industrial Management**

Credit Hours: 1.00 to 4.00. Investigation in a specific management field. Arrange with instructor before enrolling. Permission of instructor required. Typically offered Fall Spring Summer.

- MGMT 49000 - Problems In Industrial Management - Technology Strategy
- MGMT 49000 - Problems In Industrial Management - Social Entrepreneurship in Practice

**MGMT 59000 - Directed Readings In Management**

Credit Hours: 1.00 to 4.00 (West Lafayette, North Central) 2.00 to 4.00 (Calumet) Supervised reading and reports in various subjects. Open only to a limited number of seniors and graduate students. Permission of instructor required. Typically offered Fall Spring Summer.

**Pharmacy**

**PHRM 49000 - Special Topics**

Credit Hours: 0.00 to 3.00. Subject matter and method of approach individually directed by instructor. Permission of instructor required. Typically offered Fall Spring Summer.

**PHRM 83100 - Health Care Systems**

Credit Hours: 2.00. This course is envisioned as a primarily didactic course whose main purpose is to provide students with an introduction to the structures and functions of the United States Health Care System. It is also designed to provide the student an opportunity to compare and contrast the methods used in other countries to address the needs of society for provision of health care to its members. Typically offered Spring.

**PHRM 84900 - Population Health Management**
Credit Hours: 2.00. This two-credit hour course aims to provide students with the core knowledge and basic skills used in managing the health of populations. Core content will include managed care principles, pharmacist involvement in managed care, and program designs. The course will also provide instruction in the topic areas of pharmacoepidemiology and pharmacoeconomics. Typically offered Spring.

**PHRM 87000 - Health Policy Applications**

Credit Hours: 1.00. This course will explore policy issues that influence health care. The course will provide students opportunities to apply material from prior courses in Health Systems, Population Health Management, and Public Health in relation to the impact of health policy. Students will gain an understanding of how policy development must address competing interests and goals, and how policy can influence the scope of pharmacist's professional roles. Timely materials on current policy, current policy debates, and professional advocacy will be discussed. Typically offered Fall.

**PHRM 86900 - Practice Management And Marketing Of Professional Services**

Credit Hours: 2.00. Introduces essential pharmacy practice managerial skills including personnel management, addressing conflict, CQI, change management and leadership. Builds upon these skills in the development of a business plan to implement an innovative pharmacy service. Typically offered Spring.

**Science**

**COM 21700 - Science Writing And Presentation**

Credit Hours: 3.00. Students learn to effectively communicate scientific and technical information both verbally and in writing to a variety of audiences. Typically offered Fall Spring.

**CS 49000 - Topics In Computer Sciences For Undergraduates**

Credit Hours: 1.00 to 5.00. Supervised reading and reports in various fields. Permission of instructor required. Typically offered Fall Spring Summer.

- "Great Issues" - All Great Issues in Science Courses-view link for specific offerings - http://www.science.purdue.edu/Current_Students/curriculum_and_degree_requirements/great-issues.html

**Technology**

**AT 49800 - Aviation Technology Capstone**
Credit Hours: 3.00. The Aviation Technology Capstone course encourages teamwork in small groups on a substantial project. The intent of this course is to provide a capstone experience that integrates the material and previous experience of the student's curriculum. It also provides an opportunity for students to recognize and evaluate the interrelationship of their general education courses with the courses taken for their major. Typically offered Fall Spring Summer.

**BCM 45500 - Construction Company Management**

Credit Hours: 3.00. Business policy and management aspects of construction companies are studied. Included are ethics, public relations, business development, business plans, bonds, insurance, and human resource management considerations. Typically offered Fall Spring.

**CGT 41100 - Contemporary Problems In Applied Computer Graphics**

Credit Hours: 3.00. Groups will identify, design, qualify, manage, create, and present a final project relative to existing or emerging issues within applied computer graphics. Activities and experiences will explore related topics such as project planning and management, user expectations, interpersonal communications skills, and quality management. The course concludes with faculty, peers, and practicing professionals evaluating oral, written, and media presentations of final projects. Typically offered Fall Spring.

**CGT 45000 - Professional Practices**

Credit Hours: 3.00. Preparation for professional employment in computer graphics professions. Topics covered include creative and publishing law, contracts, copyrights, corporate and freelance employment considerations; portfolio planning; and interviewing. Arranged interviews and portfolio reviews. Typically offered Summer Fall Spring.

**CNIT 48000 - Managing Information Technology Projects**

Credit Hours: 3.00. This course introduces the application of knowledge, skills, tools, and techniques that project managers use to plan, staff, estimate, and manage information technology projects. Special emphasis is placed on learning and applying the concepts of managing scope, risk, budget, time, expectations, quality, people, communications, procurement, and externally provided services. Students will apply project management technology and techniques to business problems. Typically offered Fall Spring.

**ECET 43000 - Electrical And Electronic Product And Program Management**

Credit Hours: 3.00. This course deals with the planning of electrical and electronic products and projects. Research methods are studied to support new product development including customer needs and the development of engineering requirements. Formal techniques such as functional decomposition, top-down and bottom-up design techniques are studied. Planning and design alternatives to meet cost, performance, and user-interface foals are emphasized. Technical topics are revisited with emphasis on new applications. The various types and levels of new product system tests are studied. New product planning, scheduling, and
management techniques are studied, along with the usage of software tools for project scheduling and management. Creativity is stressed, and the different approaches taken by the designers are compared and discussed. Typically offered Fall Spring Summer.

**ECET 46000 - Project Design And Development**

Credit Hours: 3.00. An extensive individual or small group design project is carried out with guidance from a faculty advisor. This course includes determining customer requirements, considering design alternatives, prototyping, project integration, and testing. The project is completed as a robust prototype. The course concludes with a formal written report and a presentation of the project to faculty and invited industrial guests. Typically offered Fall Spring Summer.

**IET 45100 - Monetary Analysis For Industrial Decisions**

Credit Hours: 3.00. An introduction to the time value of money and how it relates to capital investments, equipment replacement, production cost, and various engineering technology alternatives. Not open to students who have had IET 25000. Typically offered Fall Spring Summer.

**IT 22600 - Biotechnology Laboratory I**

Credit Hours: 2.00. Focuses on nucleic acid manipulation. Modules include, making a eukaryotic library, identifying clones, sub-cloning into a bacterial expression vector and verification of the clone's identity by restriction analysis and DNA sequencing. Basic laboratory techniques (solution making, buffer preparation, good safety techniques), sterile technique and compliance procedures. Typically offered Summer Fall Spring.

**IT 33000 - Industrial Sales And Sales Management**

Credit Hours: 3.00. Sales and sales management techniques for analyzing distribution challenges and providing solutions through effective communication; establishing credibility, effective questioning techniques, developing and presenting solutions, anticipating objections and gaining a commitment, plus techniques for building, developing and compensating an effective sales organization. Typically offered Fall Spring.

**IT 43400 - Global Transportation And Logistics Management**

Credit Hours: 3.00. A study of the various aspects of logistics in industrial systems and product support. The development, implementation, and control of physical transportation systems, product distribution, warehousing, and inventory policy models will be emphasized. The impact of logistics and transportation in the global environment will be discussed. Case studies and software applications will be included. Typically offered Fall Spring Summer.

**MET 40100 - Capstone Projects I**

Credit Hours: 3.00. This course deals with the planning for capstone projects. Methods to develop engineering requirements to
meet project needs and formal design techniques are studied. Planning and design alternatives to meet cost, performance, and user-interface goals are emphasized. System tests and measurements are considered. Project planning, scheduling, and management techniques are studied. Different design approaches are compared. Permission of instructor required. Typically offered Fall Spring Summer.

**MET 40200 - Capstone Projects II**

Credit Hours: 3.00. This is the second of two courses in a capstone project sequence. Project management and system engineering methods are applied to solving an engineering problem. Permission of instructor required. Typically offered Fall Spring Summer.

**OLS 37500 - Training Methods**

Credit Hours: 3.00. Principles, practices, and methods of employee training. Introduction to systematic training program design, development, and evaluation. Emphasis is on the supervisor as a trainer. Typically offered Fall Spring Summer.

**OLS 37600 - Human Resource Issues**

Credit Hours: 3.00. Analysis and discussion of case problems concerning typical leadership and personnel situations that impact upon the supervisor/manager. Emphasis directed toward development of attitude, philosophy, analytical ability, and problem-solving skills within the working environment. Typically offered Fall Spring Summer.

**TLI 21400 - Introduction To Supply Chain Management Technology**

Credit Hours: 3.00. This course is an introduction to supply chain management technology. Topics include supply chain functions including how to organize a supply chain, supply chain strategy, supply chain process mapping, and use of supply chain technologies, analysis, and performance measurements. Typically offered Fall Spring Summer.

**TLI 31400 - Leading Innovation In Organizations**

Credit Hours: 3.00. This course provides the foundation for understanding the manner in which companies capture innovation and use it to set themselves apart from competitors. Topics covered include the attributes of organizations that are successful in fostering a culture of innovation; the characteristics and roles of leaders and members in innovative organizations; managerial processes and organizational systems that facilitate the successful development, commercialization, and adoption of innovative technologies, products, and services; and methods used to measure innovation-related outcomes. Typically offered Fall Spring Summer.

**TLI 31500 - Innovative Product Development And Testing**

Credit Hours: 3.00. This course introduces the process of technological innovation and new product development from concept to
Topics covered include ideation, R&D, prototyping (design and modeling), testing for quality, the patent process, intellectual property rights, marketing and cost evaluation. Typically offered Fall Spring Summer.

**Economics Minor**

Code: ECON  
Credit Hours: 15

**Minor Requirements**

- A grade of a C- or better must be earned in any course used to fulfill the minor. Courses for the minor may not be taken as Pass/No Pass.
- Transfer credit for courses that are a direct match will be accepted for the minor. Undistributed transfer credit (i.e. ECON 2XXXX) will not be accepted. To see how courses from other institutions transfer to Purdue use Purdue's Transfer Credit Course Equivalence Guide at https://selfservice.mypurdue.purdue.edu/prod/bzwtxcrd.p_select_info.
- Economics majors have priority in registering for Economics upper-division courses. Students seeking a Minor in Economics are not allowed to register for upper-division courses until after Krannert registration restrictions are lifted. Courses overrides are not provided and space in upper-division courses is not guaranteed. [http://www.krannert.purdue.edu/undergraduate/current-students/nonkrannert-students.asp](http://www.krannert.purdue.edu/undergraduate/current-students/nonkrannert-students.asp)

**Required Courses for this area (9 credit hours):**

**ECON 25100 - Microeconomics**

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices. Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

**ECON 25200 - Macroeconomics**

Credit Hours: 3.00. Introduction to macroeconomic theory. The course develops a theoretical framework permitting an analysis of the forces affecting national income, employment, interest rates, and the rate of inflation. Emphasis is placed upon the role of government fiscal and monetary policy in promoting economic growth and stable prices. Typically offered Fall Spring Summer. CTL:ISH 1041 Macroeconomics

**ECON 34000 - Intermediate Microeconomic Theory**

Credit Hours: 3.00. Topics from consumer behavior and demand, decisions under uncertainty, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Typically offered Fall Spring.
ECON 51100 - Intermediate Economics I

Credit Hours: 3.00. Consumer behavior and demand, production and cost, factor demand, market structure, general equilibrium and welfare. Emphasis on the tools used to analyze the behavior of individual economic units. Not open to students with credit in ECON 34000. Typically offered Fall Summer.

Complete 2 Upper Division Economics Electives from the following list (6 credit hours):

ECON 35200 - Intermediate Macroeconomics

Credit Hours: 3.00. Continuation of ECON 25200. A more rigorous, general equilibrium treatment of macroeconomic theory with emphasis on the components of the model: determinants of consumption, investment, net exports and foreign exchange rates, the level of unemployment, inflation and the long-run rate of economic growth. Typically offered Fall Spring.

ECON 51200 - Intermediate Economics II

Credit Hours: 3.00. Course content includes money and banking, national income and aggregative economics; the analysis of the determination of national income, employment, the price level, and the balance of payments. Consideration of both theory and economic policy. Not open to students with credit in ECON 35200. Typically offered Spring.

ECON 36000 - Econometrics

Credit Hours: 3.00. This course examines the statistical techniques used to analyze economic data, estimate causal effects, make predictions, and test economic theory. Students learn empirical skills used in analytical consulting, financial modeling, economic research, and by analysts in the private and public sectors. Emphasis is placed on estimating a single equation (e.g., demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using statistical software available in the Krannert computer labs. Typically offered Fall Spring.

ECON 56200 - Econometrics I

Credit Hours: 3.00. This masters-level course in econometrics covers the tools that will enable students to conduct empirical analysis using economics data. The course examines the statistical techniques used in testing economic theories, estimating casual effects, and making predictions. Emphasis is placed on estimating a single equation (e.g., a demand function) and the problems associated with such estimation. As part of the course, students will estimate equations using STATA, a statistical software package. Permission of department required. Typically offered Fall.

ECON 36100 - Antitrust And Regulation
Credit Hours: 3.00. The course studies the influence of laws and regulations on the behavior of firms, focusing on two types of government intervention in the market: antitrust law and economic regulation. Antitrust laws define the rules by which firms must compete. Economic regulation more tightly constrains the actions of firms, requiring that they obtain approval to set prices and/or enter new markets. The focus is on current topics in both areas, including comparison of U.S. practice with that of European Union and elsewhere. Typically offered Spring.

**ECON 36500 - History Of Economic Thought**

Credit Hours: 3.00. The course traces the development of theories of value and economic growth from the seventeenth century to Karl Marx. Among the authors studied are the mercantilists, Hume, Smith, Ricardo, and Marx. Excerpts from the original works are read and evaluated in light of modern theory. Typically offered Spring.

**ECON 36700 - Law And Economics**

Credit Hours: 3.00. It has become increasingly clear to economists, legal scholars and political scientists that it is impossible to understand economic institutions without first having an understanding of the legal framework within which they operate. Similarly, it is impossible to understand the impact of law on society without first having an understanding of economic principles. This problem is further complicated by the fact that there are often ambiguities in the written law that lead to significant differences between what the law appears to say and how the law is interpreted in the courts. This course is designed to give the student an understanding of both legal and economic principles and the relationship between them. Finally, through the use of economic analysis, the student will acquire the tools to predict the likely outcomes of particular laws and how they will affect their family and business decisions. Typically offered Fall Spring Summer.

**ECON 37000 - International Trade**

Credit Hours: 3.00. Develops an understanding of the economics of globalization, including the movement of goods, people, capital, and ideas across countries. Using the tools of intermediate economic theory, we discuss the benefits and costs of globalization, the implications of globalization for wages, earnings, and national welfare, and their intersection with government policies. Typically offered Fall Spring.

**ECON 38000 - Money And Banking**

Credit Hours: 3.00. The course analyzes the economics of money, monetary systems, investments, and financial intermediaries in modern industrial economies. Topics considered include the origin of money and the banking industry, financial asset markets, the role of central banks, and the effects of various monetary policies. The theory will be presented side by side with current economic and financial news, and the students will learn how to track financial and economic data via The Wall Street Journal. Typically offered Fall Spring.

**ECON 38500 - Labor Economics**

Credit Hours: 3.00. The purpose of this course is to introduce important topics, theories, institutions, and policy issues relating to
the functioning of labor markets. Topics to be considered include labor supply decisions, investments in human capital, compensating wage differentials, labor contract theory, unions, compensation programs, signaling in labor markets, the economics of unemployment, and government employment, retirement, and workplace safety. Typically offered Fall Spring.

**ECON 42200 - Public Finance And Taxation**

Credit Hours: 3.00. This course examines the role of government in market economies. The aim of the course is to provide an understanding of the reasons for government intervention in the economy and how individuals and firms respond to taxation and other government actions and how to evaluate the benefits of public programs. For example, what effects do taxes have on incentives to work, save, and invest? Emphasis is placed on current U.S. policy issues including Social Security, health care, education, environmental regulation, welfare programs, and tax reform. Typically offered Spring.

**ECON 45100 - Game Theory**

Credit Hours: 3.00. In the course, economic, political, and social interactions are represented as games, in which strategies and resulting outcomes can be analyzed. The analysis of these interactions is then used to demonstrate how one can make optimal decisions under uncertainty. Typically offered Fall Spring.

**ECON 46100 - Industrial Organization**

Credit Hours: 3.00. This course examines the determinants of firm and market structure and the resulting market performance in imperfectly-competitive markets. Advanced topics include advertising, research and development, imperfectly competitive international markets, and market integration. Emphasis is placed on using theoretical models of firm and industry behavior to explain and analyze real-world examples of firm behavior. Typically offered Fall.

**ECON 46600 - International Economics**

Credit Hours: 3.00. Analyzes topics in international economics, using more advantage techniques and more detailed treatment than in ECON 37000 or ECON 37100. While coverage varies somewhat with instructor, some topics could include: economic growth, innovation and technology transfer, and the role of multinational corporations. Typically offered Fall Spring.

**ECON 47100 - Behavioral Economics**

Credit Hours: 3.00. Students learn about human behavior in economic environments, with a strong emphasis on classroom laboratory exercises. Topics considered include behavior in a variety of markets - for example, markets with price controls, markets for financial assets and auction markets -- and behavior in social dilemmas that arise when people try to provide public goods voluntarily or when sellers try to conspire to fix prices. Students will also learn how people bargain with, trust each other, and show social preferences towards others. Decision-making and anomalies for risky and uncertain choices will also be covered. Typically offered Fall Spring.

- Any ECON 3900 Course - Credit Hours: 3.00
- Any ECON 4900 Course - Credit Hours: 3.00
- Krannert approved Study Abroad Course - Credit Hours: 3.00
Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

The knowledge source for specific degree requirements and completion is myPurduePlan.

Management Minor

Code: MGMT
Credit Hours: 18

Minor Requirements

- A grade of a C- or better must be earned in any course used to fulfill the minor. Courses for the minor may not be taken as Pass/No Pass.
- Transfer credit for courses that are a direct match will be accepted for the minor. Undistributed transfer credit (i.e. MGMT 2XXXX) will not be accepted. To see how courses from other institutions transfer to Purdue use Purdue's Transfer Credit Courses Equivalence Guide at https://selfservice.mypurdue.purdue.edu/prod/bzwtxcrd.p_select_info.
- MGMT 20010: Introductory Accounting for Non-Management Majors may not be used as a prerequisite for MGMT 20100. Management Accounting I. MGMT 20000 is the pre-requisite for MGMT 20100.
- Students who took ECON 25200 prior to Fall 2013 to satisfy their management minor requirement may use it to satisfy minor requirements and as a prerequisite for MGMT 31000, MGMT 32400, and MGMT 45100.

Required Courses for this area (9 credit hours):

MGMT 20000 - Introductory Accounting

Credit Hours: 3.00. The objectives of the course are to help students: (1) understand what is in financial statements and what the statements say about a business, (2) identify the business activities that caused the amounts that appear in the statements, and (3) understand how, when, and at what amount the effects of manager and employee actions will appear in the statements. Typically offered Fall Spring Summer. CTL: IPO 1801 Accounting I

MGMT 20100 - Management Accounting I

Credit Hours: 3.00. An introduction to management's internal use of accounting information--for decision making, production management, product costing, motivating and evaluating performance, and budgeting. Typically offered Fall Spring Summer. CCN: IPO 1802 Accounting II

ECON 25100 - Microeconomics

Credit Hours: 3.00. Microeconomics studies the choices individuals make and the incentives that influence those choices.
Emphasis is on the incentives that determine market prices and resource allocation. The role of public policy in influencing incentives and efficiency is also addressed. Typically offered Fall Spring Summer. CTL:ISH 1042 Microeconomics

Complete 3 Upper Division Management Electives from the following list (9 credit hours):

Courses with a ♦ are non-majors courses and do not require permission or overrides for non-Krannert students:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Description</th>
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<tbody>
<tr>
<td>MGMT 30400</td>
<td>Introduction To Financial Management</td>
<td>3.00</td>
<td>Credit Hours: 3.00. Introductory course providing a foundation in corporate finance and covering topics such as: discounted cash flow valuation, bond valuation, equity valuation, option valuation, factors influencing a firm's cost of capital, and international finance issues. Typically offered Fall Spring.</td>
</tr>
<tr>
<td>MGMT 31000</td>
<td>Financial Management</td>
<td>3.00</td>
<td>Credit Hours: 3.00. Management of the financial affairs of the industrial enterprise. Working capital management, current asset management, capital budgeting, stock and bond valuation, and capital structure decisions. Typically offered Fall Spring Summer.</td>
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<tr>
<td>MGMT 30500</td>
<td>Business Statistics</td>
<td>3.00</td>
<td>Credit Hours: 3.00. Introduction to business statistics as related to facilitating managerial decision making. Topics include descriptive statistics, probability models, estimation, hypothesis testing, and regression analysis. Students use software to do their own analyses. Typically offered Summer Fall Spring.</td>
</tr>
<tr>
<td>STAT 35000</td>
<td>Introduction To Statistics</td>
<td>3.00</td>
<td>Credit Hours: 3.00. A data-oriented introduction to the fundamental concepts and methods of applied statistics. Exploratory analysis of data. Sample design and experimental design. Probability distributions and simulation. Sampling distributions. The reasoning of statistical inference. Confidence intervals and tests for one and two samples. Inference for contingency tables, regression, and correlation. Introduction to regression with several explanatory variables. Essential use is made of statistical software throughout. Intended primarily for students majoring in the mathematical sciences. For statistics majors and minors, credit should be allowed in no more than one of STAT 30100, 35000, 50100, and in no more than one of STAT 50300 and STAT 51100. Prerequisite: two semesters of college calculus. Typically offered Fall Spring.</td>
</tr>
<tr>
<td>MGMT 32300</td>
<td>Principles Of Marketing</td>
<td>3.00</td>
<td>Credit Hours: 3.00. This mixed lecture and case course provides an overview of the functional area of marketing. The course is taught from a managerial perspective; it focuses on inputs to the marketing decision-making process, the process itself, and its results. No credit for students in the School of Management, except economics majors. Typically offered Fall Spring.</td>
</tr>
</tbody>
</table>
MGMT 32400 - Marketing Management

Credit Hours: 3.00. The objectives of this course are to expose students to the problems commonly faced by marketing managers and to develop skills in analyzing marketing problems and preparing implementable plans of action based on analyses of given business situations. Cases and a marketing simulation are used to focus the discussion and to reinforce learning of key marketing concepts. Typically offered Summer Fall Spring.

MGMT 35000 - Intermediate Accounting I

Credit Hours: 3.00. Financial reporting for interested external parties. Emphasis on asset valuation, income measurement, and preparation of financial statements, and on appreciation of discretion available to preparers. Typically offered Fall Spring.

MGMT 35400 - Legal Foundations Of Business I

Credit Hours: 3.00. An examination and study, for management students, of the nature and place of law in our society, both national and international, the social and moral bases of law enactment, regulation of business, legal liability, enforcement procedures, and the legal environment for managers. Typically offered Fall Spring Summer.

MGMT 45500 - Legal Background For Business I

Credit Hours: 3.00. The nature and place of law in our society, national and international, social and moral bases of law enactment, regulation of business, legal liability, and enforcement procedures. Special emphasis on torts, contracts, and agency. No credit to students in the School of Management. Typically offered Fall Spring Summer.

MGMT 36100 - Operations Management

Credit Hours: 3.00. This course provides an understanding of the issues involved in designing and managing manufacturing and service systems. Topics include manufacturing strategy, quality management, inventory systems, aggregate planning, just-in-time manufacturing, and operations scheduling. Case studies and articles integrate these topics and highlight managerial implications. Typically offered Fall Spring.

MGMT 38200 - Management Information Systems

Credit Hours: 3.00. This case-oriented course is designed to familiarize students with existing and emerging technologies and their business applications. It also covers issues, problems, and opportunities that information systems (IS) executives and general managers face when managing IS resources in their organizations. Includes lectures, presentations, case analyses and discussions, and a World Wide Web project. Case discussions cover real situations and deal with the operational and strategic decisions that every IS manager has to make in managing and exploiting the available information technology. Typically offered Summer Fall Spring.
MGMT 45100 - Strategic Management

Credit Hours: 3.00. The course focuses on understanding competitive forces and how organizations strive to build sustainable competitive advantages through business- and corporate-level strategies. It integrates and builds upon previous training in functional areas and presents new analytical tools for developing an understanding of the strategic decisions that determine future directions and effectiveness of the organization. Typically offered Fall Spring.

MGMT 44301 - Management Of Human Resources

Credit Hours: 3.00. Survey of theory and techniques used in human resource management within organizations. Emphasis is placed on legal concerns, human resource staffing and development, reward systems, and the role of unions in American society. Techniques studied include job analysis, the use of various recruitment and selection procedures, compensation, administration, and collective bargaining. No credit for students in the School of Management. Typically offered Fall Spring.

OBHR 33000 - Introduction To Organizational Behavior

Credit Hours: 3.00. This course investigates the impact that individuals, groups, and organizational structure have on behavior within organizations for the purpose of applying such knowledge toward improving an organization's effectiveness. Attention is given to such topics as motivation, leadership, group processes, organizational structure, technological innovation, and conflict management. Emphasis is placed on developing management skills and application of organizational behavior theories. Typically offered Fall Spring.

- Krannert approved Study Abroad course

Note

* Non-Krannert students must wait for the date listed on the website for restrictions to be lifted allowing registration, space permitting http://www.krannert.purdue.edu/undergraduate/current-students/nonkrannert-students.asp

Degree Requirements

The student is ultimately responsible for knowing and completing all degree requirements.

myPurduePlan is knowledge source for specific requirements and completion.