

# MANAGEMENT AND INFORMATION SYSTEMS (MIS)

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## **MIS 54091 SEMINAR IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Cross-listed with HRM 44091) In-depth readings, discussion projects and presentations in a specialized area of human resource management.

**Prerequisite:** Business administration major; and graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MIS 54183 DEVELOPMENT AND TRAINING HUMAN RESOURCES IN ORGANIZATIONS 3 Credit Hours**

(Cross-listed with HRM 44183) Course focus is quality training design, based upon theory and empirical research. Implications for practice and current challenges in employee training and development are also highlighted.

**Prerequisite:** Business administration major within the master of business administration degree; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MIS 54185 STAFFING HUMAN RESOURCES 3 Credit Hours**

(Cross-listed with HRM 44185) Staffing, development of systems to select, place, promote, and retain employees to enhance organizational effectiveness and maintain legal compliance are core HRM activities in organizations. This course will provide students with an understanding of the technical components of selection, including how to determine which applicant characteristics should be examined, what procedures should be used to gather information, and how that information should be combined to identify qualified job applicants. In addition, this course focuses on promotion and retention of employees.

**Prerequisite:** Business administration major within the master of business administration degree.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MIS 54445 GLOBAL HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

(Cross-listed with HRM 44445) The course examines the impact of internationalization and cross-cultural challenges on organizations, the factors involved in selecting and managing an international workforce, the evaluation of employee relations and employment law, and address issues such as employee training and development, expatriation repatriation, performance management, and compensation issues, all from the perspective of managing an international organization.

**Prerequisite:** Business administration major within the master of business administration degree; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MIS 64005 ANALYTICS FOR DECISION MAKING 2 Credit Hours**

This course uses computer capabilities to analyze and understand a variety of statistical and business analytics techniques and how to apply these techniques to solving business problems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

## **MIS 64011 SYSTEMS SIMULATION 3 Credit Hours**

Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulations studies, analysis and interpretation of results.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MIS 64013 NONPARAMETRIC AND ROBUST STATISTICS 3 Credit Hours**

(Slashed with MIS 74013) A presentation of statistically sound techniques for those who need to be able to use nonparametric or robust methods to deal with non-normal distributions or outliers (common problems) in their data.

**Prerequisite:** MIS 64005 or 74005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MIS 64017 MULTIVARIATE STATISTICS 3 Credit Hours**

This course is devoted to a study of multivariate statistical methods. Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis cluster analysis and factor analysis.

**Prerequisite:** MIS 64023 or 74023; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MIS 64018 QUANTITATIVE MANAGEMENT MODELING 3 Credit Hours**

A variety of optimization and heuristic modeling techniques are explored. Decision-making environments, model selection, and interpretation are emphasized. Various linear and nonlinear mathematical programming techniques are the primary topic but are supplemented with other optimization and heuristic techniques.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MIS 64019 RESEARCH SEMINAR IN SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Research seminar designed primarily for students who seek an in-depth understanding of the current research literature in supply chain management and who are interested in doing research in supply chain management. Students study the academic literature with emphasis on the development and use of analytical tools and models to solve supply chain management problems. Specifically, the course will address quantitative modeling to support operational, tactical and strategic decision-making in supply chain management.

**Prerequisite:** Graduate standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64020 ADVANCED STATISTICAL MODELS 3 Credit Hours**

This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity and reliability issues.

**Prerequisite:** MIS 64023 or 74023; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64023 LINEAR STATISTICAL MODELS AND APPLICATIONS 3 Credit Hours**

Models and applications of simple and multiple regression, correlation and analysis of variance.

**Prerequisite:** MIS 64005 or 74005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64026 GLOBAL SUPPLY CHAIN MANAGEMENT AND SUSTAINABLE STRATEGIES 3 Credit Hours**

Introduces the knowledge base needed to coordinate business operations across global supply chains. Addresses how to integrate traditional business operations so as to align them in support of inter-firm collaboration required to compete globally. Investigates specific topics relevant to supply chain management and offers a managerial orientation towards supporting global supply chain operations. Immerses students into responsible supply chain practices around the globe with strong emphasis and orientation towards sustainable (green) supply chains.

**Prerequisite:** MIS 64041; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64028 GLOBAL SUPPLY CHAIN BUSINESS MODELS 3 Credit Hours**

Focus on modeling techniques for supporting decision making in supply chain management. Introduces students to the problems facing a global supply chain manager and the implementation of spreadsheet-based models for solving problems that arise in the operation of a supply chain. Emphasis is placed on model formulation and interpretation in support of decisions to coordinate and improve supply chain operations.

**Prerequisite:** MIS 64026 or 64036; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64029 SUPPLY CHAIN AND VENDOR MANAGEMENT STRATEGIES 3 Credit Hours**

Building global 'relationships' are central pillars to effective supply chain management. There are strategic relationships, tactical relationships, transactional relationships, internal relationships, and of course, relationships with the government. As supply chains become global, managers have to consider cultural, regulatory, and communication differences to create and operate within the global village. Students learn how to deal with a rapidly changing landscape and understand how to deal with distributed resources, vendors, and people across cultures and convictions.

**Prerequisite:** MIS 64026; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64036 BUSINESS ANALYTICS 3 Credit Hours**

Overview of business analytics and its appropriate applications in various industries and functional areas. Critical thinking, problem definition, problem solving, effective communication, and leadership are emphasized. Methods such as data visualization and descriptive, predictive, and prescriptive analytics are covered from a broad perspective. This course is applied, hands-on, and case-based. Cases emphasize the communication of quantitative solutions to laypeople and required leadership during decision-making and implementation stages.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64037 ADVANCED DATA MINING AND PREDICTIVE ANALYTICS 3 Credit Hours**

Course extends the coverage of data mining and predictive analytics. Topics focus on the applied use of these techniques in realistic settings. Covers statistical and machine learning techniques.

**Prerequisite:** MIS 64036 or MIS 64060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64038 ANALYTICS IN PRACTICE 3 Credit Hours**

Course focuses on supporting techniques and managerial and professional skills necessary to being an effective business analyst. Other topics include project management, requirements analysis, change management, team dynamics, leadership, ethics and effective communication between all stakeholders.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64041 OPERATIONS, SERVICE AND SUPPLY CHAIN MANAGEMENT 2 Credit Hours**

Develops a framework for analysis of operating problems. Uses computer, quantitative and behavioral models to develop operating plans consistent with organizations' competitive (or service) strategy.

**Prerequisite:** MIS 64005; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64042 GLOBALIZATION AND TECHNOLOGY STRATEGY 2 Credit Hours**

This course is designed to provide both, general managers and Information Technology (IT) managers, an overview of the issues that are related to the management of an organization's IT assets. For general managers, the course offers frameworks for evaluating and guiding IT activities in their organizations. For the IT managers, the course offers frameworks for organizing and understanding the management challenges related to deployment of IT in their organizations. The focus is on decisions made by organizations as they attempt to deal with the challenges posed by IT in various functional areas of an organization.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64047 MANUFACTURING TECHNOLOGY AND STRATEGY 3 Credit Hours**

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64050 ESSENTIALS OF BUSINESS MGMT 3 Credit Hours**

This is an introductory management course that discusses functional areas of business and their strategic positioning in delivering business solutions.

**Prerequisite:** Non-college of business administration majors; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64060 FUNDAMENTALS OF MACHINE LEARNING 3 Credit Hours**

In this course, you learn some fundamentals of machine learning. Specifically, we concentrate on classification modelling, segmentation and clustering and recommendation systems.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64061 ADVANCED MACHINE LEARNING 3 Credit Hours**

Introduction to deep learning and time series data analysis. Students consider applications of deep learning to computer vision, text analysis and sequences, and time series data.

**Prerequisite:** MIS 64060; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64080 EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES 3 Credit Hours**

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64081 DATA COMMUNICATIONS AND NETWORKING IN BUSINESS 3 Credit Hours**

An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services communication standards and protocols local area networks and network management.

**Prerequisite:** Graduate standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64082 DATABASE MANAGEMENT AND DATABASE ANALYTICS 3 Credit Hours**

The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics, and introductions to NoSQL databases and big data analytics.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64083 INFORMATION SECURITY: A MANAGERIAL PERSPECTIVE 3 Credit Hours**

Introduction to the information security areas that managers must understand in order to deal with today's security threat-laden environment. The emphasis is on the important principals and concepts that managers utilize to develop effective security risk management programs.

**Prerequisite:** Admission to MBA program or admission to MS IAKM program; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64092 INTERNSHIP IN BUSINESS ANALYTICS 3 Credit Hours**

(Repeatable for credit) A supervised field experience at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on-the-job experiences.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture, Practical Experience

**Contact Hours:** 1 lecture, 17 other

**Grade Mode:** Standard Letter

**MIS 64099 CAPSTONE PROJECT IN BUSINESS ANALYTICS 3 Credit Hours**

(Repeatable for credit) In this culminating project, students draw on the breadth and depth of the curriculum to address an industry supplied problem individually or in small teams. Projects will explore prescriptive analytics as is appropriate to their design project. In-progress (IP) mark permissible.

**Prerequisite:** MIS 64036 or MIS 64060; and graduate standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MIS 64108 APPLIED TOPICS IN HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Course provides students an opportunity to learn about human resource management through an application of the material to real-world problems. Topics covered may include but not be limited to job analysis, selection methods, employee training, and performance evaluation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64158 LEADERSHIP AND MANAGERIAL ASSESSMENT 2 Credit Hours**

Students develop an understanding of the leadership process. Through critical thinking, class discussions and class activities, they build skills in leading others, leading themselves, and teamwork.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours**

Course provides students in-depth knowledge of leading organization change. Covers analysis of existing conditions, drivers of change and readiness for change along with methods of change and change implementation.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64185 BUSINESS STRATEGY 3 Credit Hours**

Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed; case analysis of actual business situations helps student further develop analytical and communication skills.

**Prerequisite:** Completion of 18 credit hours of college of business administration coursework; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours**

This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.

**Prerequisite:** MIS 64271; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64270 ORGANIZATIONAL ANALYSIS AND DESIGN 3 Credit Hours**

Course provides students an in-depth examination of all of the factors influencing human behavior at work.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 64271 HUMAN RESOURCE MANAGEMENT 2 Credit Hours**

This course explores the management of a firm's human resources from practical and theoretical perspectives of managing people at work. How high performance work practices (HPWPs) help businesses to motivate their employees for strategic competitive advantage is emphasized.

**Prerequisite:** Graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 2 lecture

**Grade Mode:** Standard Letter

**MIS 64275 STRATEGIC GLOBAL MANAGEMENT 3 Credit Hours**

Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager.

**Prerequisite:** Completion of 24 credit hours of graduate courses from the college of business administration; and graduate standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 68051 BUSINESS PROFESSIONAL DEVELOPMENT I 1 Credit Hour**

Development of professional business skills for the full-time MBA student to use in both the graduate program and career development.

**Prerequisite:** Admission to MBA program; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MIS 68052 BUSINESS PROFESSIONAL DEVELOPMENT II 1 Credit Hour**

Continuation of development of professional business skills for the full-time MBA student primarily focused on building and strengthening the skills needed by a manager for the workplace.

**Prerequisite:** Graduate standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 1 lecture

**Grade Mode:** Satisfactory/Unsatisfactory

**MIS 74005 STATISTICS FOR MANAGEMENT I 3 Credit Hours**

This course uses computer capabilities to use and understand a variety of statistical techniques and applies these techniques to business problems.

**Prerequisite:** Admission to MBA program; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74013 NONPARAMETRIC AND ROBUST STATISTICS 3 Credit Hours**

(Slashed with MIS 64013) A presentation of statistically sound techniques for those who need to be able to use nonparametric or robust methods to deal with non-normal distributions or outliers (common problems) in their data.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74017 MULTIVARIATE STATISTICS 3 Credit Hours**

This course is devoted to a study of multivariate statistical methods. Topics include multivariate analysis of variance, canonical correlation, principal component analysis, discriminant analysis, cluster analysis and factor analysis.

**Prerequisite:** MIS 64023 or 74023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74018 QUANTITATIVE MANAGEMENT MODELING 3 Credit Hours**

A variety of optimization and heuristic modeling techniques are explored. Decision-making environments, model selection, and interpretation are emphasized. Various linear and nonlinear mathematical programming techniques are the primary topic but are supplemented with other optimization and heuristic techniques.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74019 RESEARCH SEMINAR IN SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Research seminar designed primarily for students who seek an in-depth understanding of the current research literature in supply chain management and who are interested in doing research in supply chain management. Students study the academic literature with emphasis on the development and use of analytical tools and models to solve supply chain management problems. Specifically, the course will address quantitative modeling to support operational, tactical and strategic decision-making in supply chain management.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Seminar

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74020 ADVANCED STATISTICAL MODELS 3 Credit Hours**

This is a special focus course for which the topics will vary. It will generally include sampling techniques, experimental designs, similar statistical methods, internal and external validity, and reliability issues.

**Prerequisite:** MIS 64023 or 74023; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74023 LINEAR STATISTICAL MODELS AND APPLICATIONS 3 Credit Hours**

Models and applications of simple and multiple regression, correlation and analysis of variance.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74041 OPERATIONS MANAGEMENT 3 Credit Hours**

Develops a framework for analysis of operating problems. Uses computer quantitative and behavioral models to develop operating plans consistent with organizations' competitive (or service) strategy.

**Prerequisite:** MIS 64005 or 74005; and doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74042 GLOBALIZATION AND TECHNOLOGY STRATEGY 3 Credit Hours**

Focus is on the strategic issues around how a firm should manage its technology in a global market. Strategic issues include understanding the technological and competitive landscape, innovations, competitive advantages in the high-tech marketplace, outsourcing and information ethics. The core emphasis is on integrated decision-making in the age of globalization.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74047 MANUFACTURING TECHNOLOGY AND STRATEGY 3 Credit Hours**

This course provides the student with an introduction to modern techniques in manufacturing and the necessary strategic concepts to implement them. A similar discussion of service industries is also included.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74080 EMERGING HARDWARE AND SOFTWARE TECHNOLOGIES 3 Credit Hours**

Investigation of selected emerging hardware and software technologies such as parallel processing systems, computer languages and operation systems, artificial intelligence, neural networks and chaos theory.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74081 DATA COMMUNICATIONS AND NETWORKING IN BUSINESS 3 Credit Hours**

An introduction to telecommunications and computer networks. Topics include telecommunications technologies and services, communication standards and protocols, local area networks and network management.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74082 DATABASE MANAGEMENT AND DATABASE ANALYTICS 3 Credit Hours**

The design, implementation and management of database management systems within organizations are studied from an applied perspective. Additional emphases include data warehousing, structured query language for analytics, and introductions to NoSQL databases and big data analytics.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter



**MIS 74160 LEADERSHIP AND ORGANIZATIONAL CHANGE 3 Credit Hours**

(Slashed with MIS 64160) Develop understanding of the theories and techniques needed for the successful management of significant organizational change with emphasis on discussion, exercises and case studies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74185 BUSINESS STRATEGY 3 Credit Hours**

Integrative approach to the study of policy formulation and implementation. Formalized planning systems reviewed case analysis of actual business situations helps student further develop analytical and communication skills.

**Prerequisite:** Doctoral approval; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74263 EMPLOYEE SELECTION AND APPRAISAL 3 Credit Hours**

This course will focus primarily on issues associated with the person/job matching process in modern organizations related to the selection and appraisal of employees.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74270 ORGANIZATIONAL ANALYSIS 3 Credit Hours**

Theoretical basis and research findings are discussed, permitting the student to analyze and understand complex work organizations. Data provided prepares the student to analyze, design and solve organizational problems within the work environment.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 74275 STRATEGIC GLOBAL MANAGEMENT 3 Credit Hours**

Strategic global management explores micro-level concepts and strategic managerial alternatives within the context of current global business operations in the political, economic and cultural environment facing today's manager.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84007 PHILOSOPHY OF SCIENCE AND BUSINESS MODELS 3 Credit Hours**

Introductory seminar for understanding the forms and the process of business research. Its major objective is to help seminar participants understand the various philosophies that drive business research in an academic community, and introductory methods of social science research. Additionally, the seminar seeks to develop participant motivation to become a contributor to the organizational sciences communities by examining: 1. The research process, methodologies and strategies. 2. Research Paradigms, Modes and Contexts of Inquiry. 3. The nature of organizational sciences research. 4. The major streams of business research. 5. Understanding ontological choice of constructs and defining epistemic relationships between constructs. 6. Building hypotheses and socio-technical models. 7. Research design, data requirements and collection techniques, ethics and philosophies.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84011 SYSTEMS SIMULATION 3 Credit Hours**

Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulation studies, analysis of interpretation and of results.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84012 SCHEDULING AND PLANNING 3 Credit Hours**

Course is a doctoral seminar on scheduling and planning models that are used in operations and production management. The goal is to expose students to a portfolio of scheduling and planning models to stimulate research ideas in scheduling and planning models that will lead to the development of a research program for your doctoral research.

**Prerequisite:** Doctoral standing in the college of business administration.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84015 STOCHASTIC MODELS 3 Credit Hours**

Mathematical modeling of systems involving one or more random variables, and stochastic processes: basic probability theory; Poisson process, Markov chain and Markov process with applications to production, inventory, reliability and queueing systems.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84023 LINEAR STATISTICAL MODELS 3 Credit Hours**

Linear statistical models for regression and analysis of variance.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84045 SOCIAL ISSUES IN INFORMATION SYSTEMS 3 Credit Hours**

Social issues in information systems arise at the interface between information systems and individuals, groups and society. The course will begin with a broad exposure to current social issues, moving to an examination of specific issues in detail with issues chosen by student interest and instructor consent.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84047 VALUE AND SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

This course is a doctoral seminar for students who seek an in-depth understanding of the current research literature in supply chain management. The seminar is designed into three modules. The first module covers the conceptual foundation for understanding value and supply chains from an interdisciplinary perspective. The second module focuses on the basis of supply chain modeling using optimization and simulation. The third module serves to integrate the previous modules with the objective of the student producing a research paper for journal submission.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84080 INNOVATION, ADOPTION, DIFFUSION 3 Credit Hours**

Provides students with theoretical foundations of adoption and diffusion of technological innovations in organizations and society. Topics include: determinants of organizational innovation by acquisition; individual- and organizational-level technology adoption; diffusion of technologies through social systems; and the infusion and assimilation of technologies in organizations.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84081 INFORMATION SYSTEMS STRATEGY AND INNOVATION 3 Credit Hours**

This course explores the basis of strategy, deployment and competition in high- technology industries. It introduces conceptual frameworks based on cutting-edge research in economics and strategy. The frameworks may seem abstract at first, but we will focus on mastering them will gain an in-depth understanding of how high-technology industries work and how to develop strategies for managing firms in such industries. Students will learn how to develop and apply such frameworks in their research.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84082 DATABASE MANAGEMENT SYSTEMS 3 Credit Hours**

In-depth investigation of intelligent database management systems in support of business decision- making. An understanding of relational databases is assumed. Object-orientation and other advanced database concepts will be explored.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84108 ACQUIRING HUMAN RESOURCES 3 Credit Hours**

Course provides foundation for understanding issues related to the acquisition of human resources in an organization. Students will learn issues related to employment law, job analysis, job design, planning, recruitment, selection.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84112 RESEARCH METHODOLOGY 3 Credit Hours**

The objectives of this course are: to formulate a research problem and develop testable research hypotheses; develop research skills by learning the different research methods and techniques; explain information contained in research statistical outputs such as SAS and SPSS enable students to conduct meaningful and high quality research in their specific field of interest.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84261 STRATEGIC DECISION-MAKING AND HUMAN RESOURCE MANAGEMENT 3 Credit Hours**

Provides a first graduate-level introduction to the fundamental concepts of HRM/OB and strategic decision-making.

**Prerequisite:** Doctoral standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84262 THEORY OF THE FIRM 3 Credit Hours**

Course focuses on developing a deep understanding of modern strategic theory in relation to other allied fields. Students will review fundamental concepts of strategic thinking and theory development and then move to contemporary theoretical issues including transaction-cost economics, the resource-based view, the emerging theories of real options and of dynamic capabilities, strategic optimization and constraint theory, and dealing with uncertainty through scenario-driven planning.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84263 OPTIMIZING HUMAN RESOURCES 3 Credit Hours**

Students learn areas of human resources management that include training and development, performance management, compensation and retention or turnover.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84266 STATISTICS FOR MANAGEMENT 3 Credit Hours**

Survey of the leading writers and research studies in the area of management systems. The course addresses methodologies, major theoretical developments and practical applications.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84275 THEORETICAL AND EMPIRICAL GLOBAL STRATEGY 3**

**Credit Hours**

Focuses on review and integration of the several streams of literature dealing with strategy for, and management of, the product-diversified and/or internationally-diversified firm. Also, in order to complement the emphasis of other doctoral offerings on strategy formulation topics, this seminar places a special emphasis on strategy process, organizational structure, and administrative mechanisms. In particular, it explores the foundations as well as current research on corporate governance, broadly define. This includes (I) the set of mechanisms available to align the interest of top managers to those of shareowners, as well as (II) the mechanisms available to motivate and control middle managers so that their decisions and behaviors are aligned with intended corporate and/or international strategy and goals.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84277 ORGANIZATIONAL BEHAVIOR AND THEORY 3 Credit**

**Hours**

An examination of theory and research on individual and group behavior in organizations. Special attention is given to theories of motivation, job satisfaction, goal setting, task design, feedback systems, group dynamics, power and teams.

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84285 TECHNOLOGY AND INNOVATION STRATEGY 3 Credit**

**Hours**

Covers topics pertaining to innovation management at micro-level (entrepreneurship, corporate entrepreneurship), meso-level (networks), and macro-level (cross-country and within-country comparisons).

**Prerequisite:** Doctoral standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MIS 84291 SEMINAR IN MANAGEMENT SYSTEMS 3 Credit Hours**

(Repeatable for credit) Intensive investigation of selected topics in organization and strategic management. Student will be expected to undertake research on a topic determined in joint consultation with the instructor.

**Prerequisite:** Doctoral standing; and special approval of instructor.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter