MANAGEMENT AND INFORMATION SYSTEMS (MIS)

MIS 54091  SEMINAR IN HUMAN RESOURCE MANAGEMENT  3 Credit Hours
(Slashed 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
(Slashed 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
(Slashed 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
(Slashed 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
(Cross-listed 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. Immerse 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
This course extends the coverage of data mining and predictive analytics. Topics will focus on the applied use of these techniques in realistic settings. Statistical and machine learning techniques will be covered.  
Prerequisite: CS 63015, MIS 64036 and MIS 64005; and graduate standing.  
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

MIS 64038  ANALYTICS IN PRACTICE  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 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
A critical assessment of how the interweaving of various technologies, innovation, and global business strategies are shaping managerial and business decision-making.  
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:** MIS 64036; and graduate standing.  
**Schedule Type:** Lecture  
**Contact Hours:** 3 lecture  
**Grade Mode:** Standard Letter  

MIS 64061  ADVANCED MACHINE LEARNING  3 Credit Hours  This course introduces students to Deep Learning and Time Series data analysis. Applications of Deep Learning to computer vision, text analysis and sequences, and time series data will be considered.  
**Prerequisite:** MIS 64036; and graduate standing.  
**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; and special approval.  
**Schedule Type:** Practicum or Internship  
**Contact Hours:** 18 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.  
**Prerequisite:** CS 63015 or MIS 64036 or MIS 64037; 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
(Cross-listed 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 students 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 defined. 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