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**DIS                      Decision Science and Information Systems**

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**DIS 600 PRODUCTION MANAGEMENT. (3)**

This course exposes the MBA generalist to the functional area of production in both manufacturing and service sectors. Topics include tactical decisions in production and operative relationships with corporate strategy. The course emphasizes operations planning and control. Prereq: Graduate standing; MGT 611, ECO 610, ACC 628, DIS 650, ECO 611, FIN 600, DIS 651, MKT 600.

**DIS 612 SUPPLY CHAIN OPERATIONS. (3)**

An introduction to the terminology, concepts, and skills related to supply chain management. Students develop an understanding of the complexities associated with the movement of goods and information, and how they affect the mission of the firm. Discussions address the various processes and activities within an organization and how they interface with other members of the supply chain.

**DIS 620 MANAGEMENT INFORMATION SYSTEMS IN DECISION MAKING. (3)**

In-depth consideration of the value of information in managerial decision making. Topics include issues in design and evaluation of management information systems, decision support systems, and business expert systems. Prereq: DIS 651.

**DIS 621 BUSINESS EXPERT SYSTEMS. (3)**

Introduction to expert systems and artificial intelligence in the business setting. Discussions include past and current applications of expert systems in business and considerations of future application possibilities. Prereq: DIS 620.

**DIS 622 BUSINESS DATA SYSTEM ANALYSIS AND DESIGN. (3)**

An introduction to the comparative analysis and business use of various data models. Topics include the theory and design of information storage and retrieval procedures in the context of business information needs. Prereq: DIS 620, CS 101 or consent of instructor.

**DIS 623 BUSINESS DECISION SUPPORT SYSTEMS. (3)**

Discussion of business decision support system concepts and the applications of these concepts in business organizations. The theoretical development of the decision support system concept is analyzed through review of important literature in this area. Emphasis is placed on the impact of technological advances which form the basis of decision support system software. Current decision support systems are studied and future likely applications considered. Prereq: DIS 620.

**DIS 624 MANAGEMENT OF INFORMATION RESOURCES. (3)**

The course is designed to prepare students to understand and analyze major issues related to the management of information resources, evaluate the current state of information resources management within an organization, and participate in the management of such resources. Prereq: DIS 620 or consent of instructor. (Same as MGT 624.)

**DIS 651 QUANTITATIVE ANALYSIS IN BUSINESS DECISION MAKING. (3)**

A study of key problem formulation and solution procedures in business decision making. The topics studied include statistical techniques integrated in decision making under uncertainty, decision trees, queuing problems, and value of information. A major segment of the course is devoted to the study of linear programming problems, sensitivity analysis, assignment problems and transportation problems. Prereq: MBA standing.

**DIS 695 INDIVIDUAL WORK IN DSIS. (3)**

Students confer individually with instructor. May be repeated to a maximum of six credits. Prereq: Consent of the instructor.

**DIS 700 TOPICS IN OPERATIONS MANAGEMENT. (3)**

To review the various topics of operations management and to survey the status of the art research in each topic area. Research methodology and research opportunities in each topic area will be identified. May be repeated to a maximum of nine credits.

**DIS 720 MANAGEMENT INFORMATION SYSTEMS THEORY. (3)**

A theoretical consideration of the role of MIS in managerial decision making. Emphasis is placed on current research in MIS and interrelationships with management science and operations management. Prereq: Consent of instructor.

**DIS 753 SEMINAR IN MANAGEMENT SCIENCE. (3-6)**

Each semester some topic in management science such as simulation, queuing theory, stochastic processes, numerical methods, and Bayesian Decision Theory will be studied intensively. Prereq: DIS 751, 752.

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**DIS 780 STUDIES IN DECISION SCIENCE  
AND INFORMATION SYSTEMS.**

**(3)**

This course will analyze the current research topics of interest in the decision sciences. Possible areas of study may include: network management, multiple-criteria decision making; data envelopment analysis, combative decisions, and models for service organizations. May be repeated to a maximum of nine credits. Prereq: DIS 751 or consent of instructor.

**DIS 790 SPECIAL TOPICS IN MANAGEMENT DECISION SYSTEMS (Subtitle required).**

**(3)**

This is a variable topic course enabling focused doctoral student investigation of current research areas. It is anticipated that the course grade will be based on individual student semester research papers in the course topic area. May be repeated to a maximum of 12 credits under different subtitles. Prereq: Consent of instructor.