### 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 611 THE MANAGEMENT OF COMPUTER INTEGRATED MANUFACTURING.
(3)
This course is to provide a broad introduction to the state of the art developments in computer integrated manufacturing systems and the problems of managing such technologies and systems. Topics dealing with the evolving “factory of the future” such as computer aided design, computer aided manufacturing, group technology, flexible manufacturing systems, etc., will be studied. Strategic and managerial implications will be emphasized. Prereq: DIS 600.

### 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 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 751 MANAGEMENT SCIENCE II. (3)
Continuation of MGT 651 to include dynamic programming, game theory, Bayesian Decision Theory, and Monte Carlo techniques. Prereq: DIS 651 or equivalent.

DIS 752 TOPICS IN OPTIMIZATION. (3)
A study of optimization tools employed in decision making in the business and economic setting. Emphasis on characterization and computation of optima with particular attention to modeling. Topics include linear, nonlinear, dynamic, and integer programming, as well as further study of the method of Lagrange, Kuhn-Tucker theory, optimal control theory and sensitivity analysis. Prereq: Consent of instructor.

DIS 753 SEMINAR IN MANAGEMENT SCIENCE. (3-6)
Each semester some topic in management science such as simulation, queueing theory, stochastic processes, numerical methods, and Bayesian Decision Theory will be studied intensively. Prereq: DIS 751, 752.

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's semester research papers in the course topic area. May be repeated to a maximum of 12 credits under different subtitles. Prereq: Consent of instructor.

DMT 114 AN INTRODUCTION TO MERCHANDISING. (3)
An introduction to merchandising with emphasis on apparel and textiles. A survey of the retail structures which facilitate the merchandising of goods and services.

DMT 120 TEXTILES FOR CONSUMERS. (3)
A study of textiles with emphasis on consumer applications. Properties of fibers, yarns, fabric structures, colors, and finishes as related to end use. Survey of legislation and of maintenance requirements. Not open to DMT majors. Credit may not be earned for both DMT 120 and 121.

DMT 121 TEXTILES. (4)
The study of the chemical and physical properties of textiles from fiber to finished fabric. Laboratory analysis of the relationship between properties and performance characteristics. Survey of legislation, maintenance requirements, and product specifications. Credit may not be earned for both DMT 120 and 121. Lecture, three hours; laboratory, two hours. Prereq: Departmental majors.
Solutions. Analysis of specific human needs to be met by apparel items, problems of to aesthetics, function, structure and fabrication are considered. Studio work involves affecting the evolution of apparel designs and the cyclic aspects of fashion in addition of contemporary clothing. Emphasis is given to women's fashion apparel. Factors

DMT 435 INTERIOR DESIGN STUDIO 1. (5)

Studio problems in interior design related to behavioral responses to static and kinetic spaces in personal and small group situations. Research analyses, discussions, critiques, field trips. Studio, 10 hours per week. Prereq: DMT 244, DMT 254, DMT 264 and approval for continuation from the Sophomore Portfolio Review. Concur: DMT 365.

DMT 366 INTERIOR DESIGN SYSTEMS II. (3)

An in-depth study of principles, design requirements and equipment for ambient, task and decorative illumination as utilized in the interior environment. Emphasis is on methods of light generation, control, product analysis, selection, and specification. Lectures, discussion, related readings, calculations and field trips. Prereq: DMT 365.

DMT 367 COMPUTER-AIDED DESIGN. (3)

A study of the methods by which the computer may be used as a tool within the interior design profession. Lectures, laboratory, readings, discussions, functional analysis, research, and field trips. Lecture, two hours; laboratory, two hours per week. Prereq: DMT 255.

DMT 385 INDEPENDENT STUDY IN INTERIOR DESIGN, MERCHANDISING, AND TEXTILES. (1-3)

Problems involving independent laboratory, studio, and/or library study conforming to the student’s special interest under the direction of an appropriate faculty member having proficiency in the area selected. May be repeated to a maximum of six credits. Prereq: Consent of instructor and contractual agreement. Prereq: DMT 335.

DMT 414 MERCHANDISING PROCEDURES. (3)

Application of retail management and merchandising principles to the distribution of fashion goods and services. Prereq: DMT 114, 310, MKT 300, ACC 201, ECO 201, 202.

DMT 415 APPLIED INDUSTRY PLANNING AND CONTROL. (3)

Study and application of design, production and retail planning and control procedures which are essential to the industry. Prereq: DMT 114, 310, MKT 300, ACC 201, ECO 201, 202.

DMT 432 APPAREL DESIGN. (3)

This is an applied design course involving the aesthetic, functional and structural aspects of contemporary clothing. Emphasis is given to women’s fashion apparel. Factors affecting the evolution of apparel designs and the cyclic aspects of fashion in addition to aesthetics, function, structure and fabrication are considered. Studio work involves study of the design process and development of competency in fashion sketching. Sketching techniques are utilized in both exploring design problems and communication solutions. Analysis of specific human needs to be met by apparel items, problems of fabrication and marketing are basic for effective apparel design problem solution. Prereq: DMT 232 or DMT 306, 237 and 310.

DMT 450 INTRODUCTION TO RESEARCH IN MERCHANDISING, APPAREL AND TEXTILES. (3)

Study of research theory and its application to issues in merchandising, apparel and textiles. Prereq: DMT 310, Mkt 300 and STA 200.

DMT 466 INTERIOR DESIGN PROFESSIONAL PRACTICE. (3)

The development of custom design elements and studies within the framework of professional business practices and documentations. Lectures, discussions, guest speakers, field trips and design exercises, including developmental sketches, material selection, shop drawings, and scaled prototypes. Prereq: Senior standing.

DMT 480 MERCHANDISING AND DESIGN STUDY TOUR. (1-3)

A domestic or foreign study tour to include investigation of interests related to merchandising, apparel, and design. Professional visits are planned according to particular itineraries. Application and payment dates are determined each semester by the instructor. This course may be repeated one time if tour destinations are different. Prereq: Priority is given to majors and upperclassmen. All students are subject to instructor approval.

DMT 490 INTERNSHIP. (3, 6, or 9)

Supervised experience with a cooperative retail, design, or industrial establishment. Fall and summer semesters. Applications must be submitted spring semester according to a designated schedule established by the department. Prereq: Senior standing and approval of department.

DMT 515 SPECIFICATION AND EVALUATION OF TEXTILES AND APPAREL. (3)

The course will focus on product development and quality control in textile products (Apparel and Interiors), by developing specifications and evaluating the quality of a textile product. Prereq: DMT 121, DMT 306 or consent of instructor.

DMT 520 TEXTILES FOR INTERIORS. (3)

Selection, cost, expected performance and care of textiles used in residential and commercial interiors. Prereq: DMT 120, 121.

DMT 522 HISTORY OF TEXTILES. (3)

Survey of the development of textiles from ancient to modern times. Emphasis on social, economic, technological and political effects on the evolution of textile fibers, fabric structures, color and design. Field trips. Prereq: DMT 120 or 121, plus six hours in European history, Western culture, or art history.

DMT 525 ECONOMICS OF THE APPAREL AND TEXTILE INDUSTRY. (3)

A critical review of the apparel and textile industries, including structure, marketing practices, and government policies that affect merchandising and consumption of apparel and textile products. Factors such as the role of labor unions will be examined as well as the effects of international trade on apparel and textile products. Prereq: DMT 120 or 121, ECO 201, 202.

DMT 532 ADVANCED APPAREL PRODUCTION STUDIO (Subtitle required). (3)

Application and interpretation of apparel design or production methods. Application of techniques for patternmaking, special construction, new equipment, or experimental materials. May be repeated under a different topic to a maximum of nine credits. Studio, six hours per week. Prereq: DMT 232, 306 and consent of instructor.

DMT 533 HISTORY OF COSTUME. (3)

Development of costume from ancient to modern times with consideration of historic, social, and economic setting. Field trips. Prereq: Six hours in European history, Western culture, or art history; or consent of instructor.

DMT 545 CLOTHING FOR SPECIFIC NEEDS. (3)

A study of the social, psychological, and functional needs of clothing related to specific populations such as the elderly, children, handicapped persons, and occupational groups. Field trips. Prereq: DMT 247.

DMT 547 SOCIAL AND PSYCHOLOGICAL ASPECTS OF APPAREL. (3)

An advanced study of the social, psychological factors which influence apparel and apparel use with particular emphasis on research. Prereq: DMT 247 for majors only. Non-majors: three hours in sociology or anthropology and three hours in psychology. (Same as SOC 547.)

DMT 557 INTERIOR DESIGN STUDIO 3. (5)

Advanced studio problems in interior design related to commercial spaces: retail, office, financial and hospitality. Studio experiences, analyses, discussions, readings and field trips. Studio, 10 hours per week. Prereq: DMT 356.
DMT 558 INTERIOR DESIGN STUDIO 4.  
(5) Specialized studio problems in interior design related to institutional spaces such as schools, hospitals and health care facilities. Studio experiences, analyses, discussions, readings and field trips. Studio, 10 hours per week. Prereq: DMT 557.

DMT 559 SPECIAL TOPIC IN INTERIOR DESIGN, MERCHANDISING, AND TEXTILES. (Subtitle required).  
(1-3) Advanced in-depth study of interior design, merchandising, and textiles. May be repeated to a maximum of six credits. Prereq: Senior standing or consent of instructor prior to registration.

DMT 589 RES/PRES I: INTRODUCTORY CONCEPTS OF RESTORATION AND PRESERVATION.  
(3) A general introduction to the separate and definable qualities of restoration and preservation as employed by the client/designer. A survey of 18th and 19th century architectural characteristics, related government agencies, local and national case studies. Class emphasis on readings, discussions, visuals, site visitsations, and guest speakers. Prereq: Senior standing or consent of instructor.

DMT 595 INDEPENDENT STUDY IN INTERIOR DESIGN, MERCHANDISING, AND TEXTILES.  
(1-3) Problems involving independent laboratory, studio, and/or library study conforming to the student’s special interest under the direction of an appropriate faculty member having proficiency in the area selected. May be repeated to a maximum of six credits. Prereq: Senior standing or consent of instructor and contractual agreement.

DMT 600 RESEARCH METHODOLOGY IN HUMAN ENVIRONMENTAL SCIENCES.  
(3) Students will study scientific techniques and accepted research methodologies in human environmental science research. Emphasis is placed on understanding the research process and developing the skills necessary to evaluate and implement research methods and design procedures. Prereq: Graduate standing. (Same as HES 600.)

DMT 622 ADVANCED HISTORY OF TEXTILES.  
(3) An in-depth investigation into the developments of historic textiles from ancient to modern times. An analysis of the social, economic, technological and political effects on the evolution of textile fibers, fabric structures, color and design. A research project will include an analysis of a historic textile or textile application. Prereq: Three credits of History of Textiles or consent of instructor.

DMT 633 ADVANCED HISTORY OF COSTUME.  
(3) An in-depth investigation into the history of costume from ancient to modern times with application of history, social and economic factors. A research project will transform the information into an analytical problem of a historic costume. Prereq: Three credits of History of Costume or consent of instructor.

DMT 641 REGIONAL VARIATIONS IN COLONIAL AMERICAN DESIGN.  
(3) An analysis of regional variations in American furnishings, interior finishes, and architecture from colonization to 1783; consideration will be given to historical, economic, social, political, and religious influences on design. Prereq: DMT 142 or consent of instructor.

DMT 642 HISTORIC AMERICAN INTERIORS.  
(3) An in-depth analysis of social, economic and technological forces from 1783 to the early twentieth century that influenced decoration in historic American interiors. Emphasis will be placed on interior space planning, surface materials and treatments, furnishings, and the decorative arts with specific application toward preservation and adaptive use projects. Prereq: DMT 589 or equivalent or consent of instructor.

DMT 646 CURRENT RESEARCH ISSUES IN ENVIRONMENTAL DESIGN.  
(3) A seminar focusing on the current research pertaining to the relationship between the built environment and human behavior, performance or response. Various typical design facilities will be reviewed. Concurrent with HES 600. Prereq: DMT 346 or equivalent.

DMT 650 SURVEY OF CURRENT THEORIES AND LITERATURE.  
(3) An intensive survey of the theoretical and empirical literature related to the area of interior design, merchandising, apparel and textiles. Emphasis will be placed on research literature and theory building.

DMT 655 ISSUES IN CREATIVITY AND DESIGN.  
(3) This course will examine theory and research on creativity. The emphasis will be on social structure, social roles, norms and socialization processes related to creativity such as personality, process, and press. Throughout the course, emphasis will be given to theoretical frameworks and methodological procedures necessary to advance understanding of creativity to help students form a knowledge base for developing an in-depth research topic. Prereq: Graduate standing.

DMT 659 INTERIOR DESIGN STUDIO 5.  
(3) Advanced studio problems in an aspect of the human environment. Emphasis is placed on design research and programming. Studio experiences, analyses, discussions, readings, and field trips. Studio, six hours per week. Prereq: DMT 558 or consent of instructor.

DMT 660 INTERIOR DESIGN STUDIO 6.  
(3) Advanced studio problems in an aspect of the human environment. Emphasis is placed on design application. Studio experiences, analysis, discussions, readings, and field trips. Studio, six hours per week. Prereq: DMT 659 or consent of instructor.

DMT 665 ENVIRONMENTAL ISSUES RELATED TO INTERIOR DESIGN.  
(3) An examination of the philosophical and ethical issues in the practice of interior design. Discussions covered will focus on designer’s responsibilities in regard to product specification and interior construction or product technology. Various issues such as preservation of the global environment, socioeconomics concerns, and health, safety and welfare of the users will provide the topics for review. Prereq: DMT 365 or equivalent.

DMT 669 ADVANCED COLOR THEORY AND APPLICATION.  
(3) Advanced color theory will examine the physical, psychological, historical and technical perspectives. Application of color theory to textiles and apparel and the built environment. Including color forecasting, technical processes, color specification, and quality control. Prereq: Introduction to Textiles, Introduction to Color Theory.

DMT 700 RESEARCH PROBLEMS IN INTERIOR DESIGN, MERCHANDISING, AND TEXTILES.  
(3) Independent research for the exploration of a specific problem in interior design, merchandising, and textiles. May be repeated to a maximum of six credits. Prereq: Eighteen credit hours of graduate work.

DMT 748 MASTERS THESIS RESEARCH.  
(0) Half-time to full-time work on thesis. May be repeated to a maximum of six semesters. Prereq: All course work toward the degree must be completed.

DMT 759 SPECIAL TOPICS IN INTERIOR DESIGN, MERCHANDISING, AND TEXTILES (Subtitle required).  
(1-3) Advanced work on a specific topic in interior design, merchandising, and textiles. May be repeated to a maximum of twelve credits. Prereq: Graduate standing.

DMT 768 RESIDENCE CREDIT FOR THE MASTERS DEGREE.  
(1-6) May be repeated to a maximum of 12 hours.

DMT 772 SEMINAR IN INTERIOR DESIGN, MERCHANDISING AND TEXTILES.  
(1-3) Current investigation of interior design, merchandising and textiles. May be repeated to a maximum of six credits.

DMT 785 INDEPENDENT STUDY IN INTERIOR DESIGN, MERCHANDISING, AND TEXTILES.  
(1-3) Problems involving independent laboratory, studio, and/or library study conforming to the student’s special interest under the direction of an appropriate faculty member having proficiency in the area selected. May be repeated to a maximum of six credits. Prereq: Nine credit hours of graduate study, consent of instructor, contractual agreement.

DR Diagnostic Radiology

DR 850-899 FOURTH-YEAR ELECTIVE FOR MEDICAL STUDENTS.  
(1-6) With the advice and approval of the Third and Fourth Year Curriculum and Student Progress Committee, the fourth-year student may choose approved electives offered by the various departments in the College of Medicine. The intent is to provide the student an opportunity to develop his fund of knowledge and clinical competence. Prereq: Admission to the fourth year, College of Medicine and/or by the permission of Third and Fourth Year Curriculum and Student Progress Committee.
Approved electives:
- DR 850 FOURTH-YEAR ELECTIVE IN DIAGNOSTIC RADIOLOGY
- DR 855 NUCLEAR MEDICINE
- DR 856 PEDIATRIC RADIOLOGY
- DR 890 OFF-SITE CLERKSHIP IN DIAGNOSTIC RADIOLOGY