

## OPERATIONS MANAGEMENT AND INFORMATION SYSTEMS (OMIS)

**200 [MGMT 261]. Business Statistics.** Credit 3 hours. Prerequisite: MATH 155 or 161 and CMPS 110 or MGMT 210. Collection and organization of business and economic data; descriptive statistics; measures of central tendency and dispersion; statistical inference; probability; time series; index numbers; and regression and correlation topics.

**310 [MGMT 362]. Management Science.** Credit 3 hours. Prerequisite: OMIS 200 and Junior standing. The use of statistical methods and techniques as scientific tools in business decision making.

**320. Principles of Supply Chain Management.** Credit 3 hours. Prerequisites: OMIS 200, MGMT 210 and Junior standing. A study of how Supply Chain Management impacts all the areas of the firm and how managers can improve their competitive position by employing many of the purchasing, operations and logistics practices and processes discussed throughout the course.

**325 [MRKT 320]. Supply Management and Purchasing.** Credit 3 hours. Prerequisites: OMIS 320 and Junior standing. A course that introduces the role of supply management in the organization along with its basic functional areas including the evolution of the function, the purchasing process, organization of supply management within the firm, policy and procedures, strategic sourcing, out-sourcing, supplier evaluation, supplier selection, quality management, supplier development, international sourcing, cost management, contracts, negotiation, purchasing of transportation services, EDI and the legal and ethical aspects of supply management. Credit toward the degree will not be granted for both MRKT 320 and OMIS 325.

**350 [MGMT 309]. Management Information Systems.** Credit 3 hours. Prerequisites: CMPS 110 or MGMT 210. A study of the foundations of information systems such as networks, databases, the Internet, computer hardware, and software. Focuses on the interdependence among an organization's management, business processes, and information systems.

**360 [MRKT 315]. Web Basics.** Credit 3 hours. Prerequisites: MGMT 210, OMIS 350, and Junior standing. A study of the processes and tools used to design, create, publish and manage Web sites. Other topics include the use of text, graphics, sound, video, and digital imaging, e-mailing, newsgroups, Webboard discussions, Intranets, and the legal, social, and ethical issues faced by Internet users.

**370 [MGMT 310]. Data Management for Business.** Credit 3 hours. Prerequisite: OMIS 350. An introduction to the concept, use, and application of data management in business decision making. Topics include data management principles, core components of data processing, data modeling, and relational database designs.

**391. Operations Management and Information Systems Internship.** Credit 3 hours. Prerequisites: OMIS 320 or OMIS 350, Junior standing, a 2.5 adjusted grade point average, and permission of the Department Head. The Operation Management and Information Systems Internship provides the student with work experience in an assignment selected and approved by the University with a cooperating business firm. Students will earn three hours credit for a minimum of 300 hours of approved work experience. Only Supply Chain Management majors can receive credit for the Operation Management and Information Systems Internship course. All grades are assigned on a Pass/Fail basis.

**425 [MRKT 420]. Logistics Management and Transportation.** Credit 3 hours. Prerequisites: OMIS 320 and Junior standing. This course introduces the student to logistics providing coverage on the following topics: the 21<sup>st</sup> Century supply chain, efficient logistics, customer accommodation, procurement, manufacturing and distribution strategies, operational integration, information networks, planning and scheduling, inventory management, major modes of transportation, transportation infrastructures and regulation, warehousing, packaging and materials handling, network integration, and administration of the function.

**430 [MGMT 474/574]. Production and Operations Management.** Credit 3 hours. Prerequisite: MGMT 351 and OMIS 200 or consent of the Department Head. The study of the systems for the creation of goods and services consumed by society.

**435 [MGMT 484]. Project Management.** Credit 3 hours. Prerequisites: MGMT 351 and OMIS 200. The study of planning, scheduling, organizing, and controlling projects for product development, construction, information systems, new businesses, and special events. Primary course emphasis is on the project management process and the tools used for control.

**440 [MRKT 430]. Current Issues in Supply Chain Management.** Credit 3 hours. Prerequisite: Senior Standing, OMIS 325 and OMIS 425. This course is designed to introduce students to current purchasing, operations, logistics, and information systems practices within the firm operating in the global environment. Special emphasis is placed on improvement initiatives as they relate to the overall Supply Chain strategy of the firm. A team-based project is required.

**460 [MRKT 435]. e-Business and e-Commerce.** Credit 3 hours. Prerequisite: OMIS 360. This course is designed to introduce students to electronic-based business strategies and other related issues ranging from the identification of business opportunities via WWW to the evaluation of business strategies on the Internet. Credit toward the degree will not be granted for both MRKT 435 and OMIS 460.

**470 [MGMT 390]. Decision Support Systems.** Credit 3 hours. Prerequisite: OMIS 200 and OMIS 350. An introduction to business decision support systems. A cognitive process and decision-making perspective is used to highlight the implications of decision support technology for managerial problem solving. The evolution of decision support systems is discussed from architecture, design, and implementation through artificial intelligence.

**480 [MGMT 490]. Management Information Systems Development.** Credit 3 hours. Prerequisite: Registration in or prior credit for OMIS 370. The study of information systems tools, techniques, and skills necessary to perform in-depth systems analysis. Emphasizes the application of process-oriented, data-oriented, and object-oriented approaches to systems analysis.

**600 [MGMT 645]. Statistical Methods in Business and Economics.** Credit 3 hours. Prerequisite: OMIS 200 and Graduate Standing. Statistical inference; analysis of variance; trend and curve fitting; multiple and partial correlation; application to business problems with appropriate computer applications.

**635 [MGMT 694]. Applications in Project Management.** Credit 3 hours. Prerequisite: OMIS 435 and Graduate Standing. This course focuses on the study of the unique challenges of information technology and knowledge management for today's project managers. Emphasis is placed on project control techniques.

**640 [MRKT 630]. Advanced Supply Chain Issues.** Credit 3 hours. Prerequisite: Graduate standing. This course explores supply chain issues as they impact business and economic development activities. Course involves in-depth look at supply chain and purchasing management issues that are central to the expedient development of markets and economies.

**650. Information Management for Organizations.** Credit 3 hours. Prerequisite: Graduate Standing. A study of the application of computer technology in organizations. Course topics include the system approach in managing and implementing computer based systems; behavioral aspects of modern organizations; planning, designing and implementing information systems; and the use of information systems for decision making.

**670 [MGMT 635]. Database Modeling and Design.** Credit 3 hours. Prerequisite: OMIS 350 and Graduate Standing. The study of database design methodologies in various database environments. Topics include data management, structured query language, security techniques, user interface design, and data warehouses.

**680 [MGMT 690]. Information Systems Analysis and Design.** Credit 3 hours. Prerequisite: OMIS 350 and Graduate Standing. A study of information systems for management decision making, systems construction and computer utilization, organizational concepts, systems and data systems designed for business functions.

**690 [MGMT 691]. Technology Applications in Management.** Credit 3 hours. Prerequisite: OMIS 350 and Graduate Standing. A course designed to examine existing and emerging information technology applications. Special emphasis will be given to the role managers play in the successful application of information technology to improve business processes.

**695. Special Topics in Operations Management and Information Systems.** Credit 3 hours. Prerequisite: Graduate Standing. A seminar course focusing on selected issues in Operations Management and/or Information Systems.