

OPERATIONS MANAGEMENT (OMG)

OMG 220. Introduction to Transportation Management. (3 Units)

Introduction to the alternative modes, systems, rates, services, and regulations in global transport including ocean, air, and surface carriers and systems.

OMG 221. Introduction to Business Statistics. (3 Units)

An introductory course covering fundamentals of modern statistical methods. Topics include descriptive statistics, probability rules and laws, the binomial and normal distributions, sampling and sampling distributions, estimation, and hypothesis testing.

OMG 225. Introduction to Logistics Management. (3 Units)

Introductions to logistics concepts and systems, including Inventory and Warehouse Management, Logistics Information Systems, Facility Location, and Global Logistics.

OMG 230. Introduction to Supply Chain Management. (3 Units)

This course is an overview of the entire supply chain and its key elements. It covers basic concepts and terminology used in demand planning, inventory planning, material planning, distribution planning, fulfillment planning, and related components of a supply chain.

OMG 321. Business Statistics. (3 Units)

Prerequisites: MAT 131, MAT 132 or OMG 221 is required. Topics include inferential statistics, analysis of variance, multiple regression, time series forecasting and their application in business decision making process. Excel and/or a statistical software will be used throughout the course.

OMG 322. Operations Management. (3 Units)

Prerequisite: OMG 321. Analysis of the management function in the production area with emphasis on computer applications and practical problem-solving. Includes international developments.

OMG 420. Global Transportation MGT. (3 Units)

Prerequisites: OMG 220 and OMG 321 are required. This course provides advanced study of alternative modes, systems, rates, and regulations in global transport including ocean, air, and surface carriers. It also includes analysis of problems concerning the distribution of consumer products, including environmental, social, and political issues.

OMG 423. Quantitative Analysis. (3 Units)

Prerequisite: CJA 341, OMG 321 or PUB 305 is required. Use of deterministic, probabilistic methods to model and solve different types of decision problems.

OMG 425. Logistics Management. (3 Units)

Prerequisites: OMG 225 and OMG 321 are required. This course covers advanced topics in managing of logistics systems including inventory control, distribution network analysis, facility location analysis, and storage of material and the warehousing finished goods.

OMG 426. Production Planning & Control. (3 Units)

Prerequisite: OMG 322. Techniques and systems for planning, scheduling, and controlling production.

OMG 427. Business Process Improvement. (3 Units)

Prerequisite: OMG 321. Basic elements of business Process Improvement are presented. Process Improvement related to wide areas of business activities are discussed. This includes not only the process improvement of manufactured products, but also various kinds of service activities such as quality management of finance, accounting and marketing departments of manufacturing companies as well as hospitals, airlines, trucking companies, governments, schools, accounting and law firms.

OMG 428. Purchasing Management. (3 Units)

Prerequisite: OMG 322. Examines activities directed to securing the materials, supplies, equipment and services required for the proper and efficient functioning of a business, including related planning and policy issues.

OMG 429. Service Operations MGT. (3 Units)

The course emphasis is on the design and operations of service delivery firms as well as service delivery functions within manufacturing firms. It includes topics such as strategic planning and design techniques, principles of delivering quality service, managing capacity and demand, managing information, techniques for improving quality of service operations processes and customer services, and the human dimension in service management.

OMG 430. Enterprise Resource Planning and Supply Chain Management Cases. (3 Units)

Prerequisite: OMG 322 is required. Dedicated to introducing key concepts of supply chain management (SCM) and real-world SCM cases, helping students interpret the happenings in the world from a supply chain's perspective. This course will provide students with hands-on experience with the SAP ERP solution in use by major corporations to manage and improve the efficiency of their supply chains.

OMG 502. adv Topics : Operations MGT. (3 Units)

Prerequisite: OMG 321 or equivalent. Management of operations process including production and service aspects. Topics include capacity and location planning, scheduling, facility layout, project and inventory management quality improvement. Behavioral, multinational ethical issues will be considered. Case analysis, oral/written presentation and computer usage required.

OMG 510. Logistics Applications. (3 Units)

This course introduces students to various logistics application areas. Key areas to be covered include: warehouse management; pipeline management; inventory management; distribution; scheduling; freight consolidation and forwarding; international aspects of logistics; ocean/land carrier logistics; fleet operations; site location; and tariffs.

OMG 520. Logistics Case Studies. (3 Units)

This course will expose students to transportation and logistics case studies in logistics such as United Parcel Service, Dell, Ford, Cathay Pacific, Royal Caribbean Cruises, etc. Students will be exposed to logistics problems faced by major companies and how they were solved.

OMG 570. Supply Chain Design and Strategy. (3 Units)

Prerequisite: BUS 495 or Statistics is recommended. Covers principals and fundamental concepts in supply chain management. Introduces several quantitative methods to design an efficient supply chain. Topics include: demand forecasting, inventory management, supply chain network design, coordination, logistics and sourcing.

OMG 575. Supply Chain Management Systems. (3 Units)

Prerequisite: OMG 570 is required; CIS 530 is recommended. Apply information systems to support supply chain, focusing on delivering performance consistent with a firm's competitive strategy. Topics include: study of existing SCM information systems, demand-driven networks, CRM, collaboration, supplier relationship management, logistics and integration of SCM systems to company's ERP system.

OMG 580. Global Logistics Management. (3 Units)

In this course, students tackle real life Logistics management projects. Emphases are on applying theoretical frameworks to align enterprise Logistics and business strategies, and on integrating and applying knowledge and skills that they have acquired from the previous course work.

OMG 595. S Topics: Quantative Methods. (3 Units)

Prerequisites: Graduate standing and OMG 502. Intensive study of a specialized area of quantitative methods on a selected topic of particular interest to faculty and students. Three hours of seminar per week. Specific topic listed in class schedule. Repeatable course.