

Operations Management

The Operations Management major provides the knowledge and skills necessary to be a successful manager of a business operation within an integrated supply chain. Concepts covered include: personnel management, process management and analysis, scheduling, project administration, six sigma and legal and regulatory compliance issues affecting business operations.

B.S., Major in Operations Management Major Requirements (43 credit hours):

OMGT310 Operations Management I
COT313 Project Administration
BQM301 Business Quality Management
MTCH318 Quality Science 8
HRD345 Managing Human Resources
OMGT410 Operations Management II
OMGT415 Supply Chain Management
BQM432 Accounting for Management

Common Courses (Required for each major):

HRD210 Entrance Seminar
ENG420 Business and Administrative Communication
BQM427 Professional Communication and Presentations
BUS337 Business Ethics
BUS445 Productivity and Decision Making
BQM425 Research Project
LAS499 Responsibility for the Future

Recommended Electives

BQM320 Organizational Leadership
BUS328 Organizational Behavior
OMGT Logistics Management
OMGT425 Managing Technological Change and Innovation
OMGT430 Contemporary Operations Management Issues
BSAD340 Legal Environment of Business
OMGT435 Simulation Modeling for Managerial Decisions
OMGT440 Design of Work Systems
BSAD420 Management Information System Analysis
BSAD440 Strategic Management

Operations Management Courses

Department Code: OMGT

OMGT 310 Operations Management I. Overview of the salient aspects of operations management related to process analysis, product and service delivery design, work measurement, reliability and quality. This course is the first course in a two part series. Discussion of the aspects of operations strategy, supply chain management, competitive advantage and the management of operations in a global environment are included. Credit 3 hours.

COT 313 Project Administration. An introduction to project management using Microsoft Project. Covers tasks, phases, milestones, critical path tracking, resource planning, budgeting, and skill-mix staffing. Credit 3 hours.

BQM 301 Business Quality Management. An overview of the key elements comprising a superior quality management program and the most accepted techniques (e.g. benchmarking) for achieving quality. Credit 3 hours.

MTCH 318 Quality Science 8. Course is designed to acquaint students with the body of knowledge contained in the American Society for Quality (ASQ) for Six Sigma Black Belt Exam. This course is the first in a two part series. Subjects covered in this course include enterprise-wide deployment, business process management, project management, six sigma improvement methodology, and both tools-define and tools-measure. Credit 3 hours.

HRD 345 Managing Human Resources. A study of the development of the personnel management role, the organization of work, staffing the organization, developing human resources, creating favorable work environments, management-labor relations, compensation and benefit administration. Credit 3 hours.

OMGT 410 Operations Management II.

Overview of layout strategy, forecasting and constraint theory. This course is the second course in a two part series. Includes a detailed investigation of planning and scheduling strategies that are applicable to a broad range of business situations and an introduction to simulation. Credit 3 hours.

OMGT 415 Supply Chain Management.

Intricacies of supply chain management and disruptive factors that influence the supply chain are studied. Includes an analysis of current practices that reflect maximum supply chain reliability and sustain delivery integrity. Credit 3 hours.

BQM 432 Accounting for Management.

Designed to address the needs of the non-financial, non-accountant manager. Study will include basic accounting principles as they deal with budgeting, asset value, cost factors, direct labor, overhead, standard cost, positive and negative variances, and spreadsheet analysis. Credit 3 hours.

Elective Courses

MTCH 319 Quality Science 9. Course is designed to acquaint students with the body of knowledge contained in the American Society for Quality (ASQ) for Six Sigma Black Belt exam. This course is the second in a two part series. Subjects covered in this course include six sigma improvement methodology (tools-analyze) tools-improve, and tools-control), lean enterprise, and design for six sigma. Credit 3 hours.

OMGT 420 Logistics Management. Includes the study of transportation modalities and the pre-positioning of raw materials and components to ensure efficient business operations. Supplier certification processes and effective techniques to manage and schedule the movement of goods and services will be discussed.

OMGT 425 Managing Technological Change and Innovation. Focuses on the two perspectives required to successfully manage and implement change and innovation within a work culture. Applicable individual, group and organizational theory will be paired with the study of innovation theory and practice.

OMGT 430 Contemporary Operations Management Issues. Provides an overview of contemporary issues faced by management in managing complex operations. Emphasis is placed on topics of current interest. Includes the development of a future state analysis to project results from postulated solutions to contemporary issues.

OMGT 435 Simulation Modeling for Managerial Decisions. Study of the nature and purpose of computer simulation models. Topics include data collection and analysis. Provides the opportunity to plan and design simulations for facilities, manufacturing, material handling, warehousing, distribution, sales and marketing business scenarios.

OMGT 440 Design of Work Systems. An examination of the interaction among individual, job design and work environment factors and design choices. Topics include work analysis, communication, job satisfaction, motivation, productivity, job and work environment redesign and socio-technical design choices.

Suggested electives from other majors:

BSAD 420 Management of Information Systems Analysis

BSAD 440 Strategic Management

BUS 423 Forecasting the Managerial Future

BUS 328 Organizational Behavior
BSAD 340 Legal Environment of Business