

# MANAGEMENT (MGMT)

## **MGMT 24056 BUSINESS ANALYTICS I 3 Credit Hours**

(Equivalent to BMRT 21004) Introduction to concepts in statistical methods and their applications to real world problems. Examines both the theoretical and practical side of the different methods.

**Prerequisite:** MATH 11010 or MATH 11012 or MATH 12002.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**Attributes:** TAG Business

## **MGMT 24163 PRINCIPLES OF MANAGEMENT 3 Credit Hours**

(Equivalent to BMRT 11009) Introductory course in management and organizational design. The leading contributions in the area are reviewed and practical implications are developed. The course covers the principles that most management professors have come to expect in an introductory course: planning, organizing, leading, and controlling. In addition, the students need to be aware of critical issues managers must be aware of to succeed: diversity, globalization, ethics, technology, sustainability among them. The course serves as an introduction to many upper level business courses.

**Prerequisite:** Sophomore standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MGMT 34054 USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS 3 Credit Hours**

Course examines key concepts about information systems that are relevant for business managers. Students will complete hands-on assignments. Course is not open to students in the Computer Information Systems major.

**Prerequisite:** CIS 24053 or IT 11000; and minimum 2.000 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MGMT 34055 COMPUTER DECISION MODELING 3 Credit Hours**

Introduces students to the scientific decision-making tools of operations research and management science, and also to the use of spreadsheet modeling for problem formulation and solution without the need for mathematics. The concepts of modeling and better decision making are stressed along with illustrations from the various functional areas of business. Course not open to computer information systems majors.

**Prerequisite:** CIS 24053 or IT 11000; and MGMT 24056 or MATH 10041 or BMRT 21004; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MGMT 34059 SERVICE OPERATIONS MANAGEMENT 3 Credit Hours**

Provide students with the concepts and tools necessary to effectively manage service operations and to prepare students for management opportunities in service firms that represent the fastest-growing sector of the economy. The service management will be presented from an integrated viewpoint with a focus on customer satisfaction. The course materials are organized around four modules (1) understanding services (2) designing the service enterprise, (3) managing service operations and (4) toward world class-service.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MGMT 34060 OPERATIONS MANAGEMENT 3 Credit Hours**

A survey course in operations management that covers the managerial concepts and the quantitative tools used in the design, planning operation and control of operations systems.

**Prerequisite:** CIS 24053 or IT 11000; and MGMT 24056 or MATH 10041 or BMRT 21004.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MGMT 34064 MANUFACTURING RESOURCE PLANNING 3 Credit Hours**

Introduce students to the basic tools operations managers use to inform their decisions on a daily basis. The course involves hands-on coverage of manufacturing resource planning tools, including forecasting and master production schedules, bill of materials structuring, order entry and purchasing, capacity requirements planning, routing, costing, customer service, shipping, invoicing and using an enterprise resource planning (ERP) software.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MGMT 34065 QUALITY ASSURANCE 3 Credit Hours**

Introduction to importance of quality assurance and tools used to accomplish better quality in goods and services. Topics TQM, Six Sigma, quality philosophies, sampling plans and statistical process control, ISO, quality competition and awards.

**Prerequisite:** MGMT 34060; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

## **MGMT 34156 BUSINESS ANALYTICS II 3 Credit Hours**

This course provides an introduction and application of business analytics to real-world problems. Specifically, students are exposed to methods and models that allows business users to make better decisions based on data. We discuss methods for collecting, cleaning, and visualizing data, linear, non-linear, and optimization models to help decision makers choose the best decision, and some advanced forms of modeling. The goal of this course is for students to be exposed to essential topics in business analytics, and to apply these techniques to real-world problems.

**Prerequisite:** BMRT 21004 or MATH 10041 or MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34157 INTRODUCTION TO HEALTHCARE SYSTEMS MANAGEMENT 3 Credit Hours**

Provides an overview of the management, economic and policy issues facing the healthcare, pharmaceutical, biotechnology and medical device industries. The course perspective is global, with emphasis on the U.S. as the largest and most profitable market.

**Prerequisite:** None.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34158 MANAGERIAL AND TECHNOLOGICAL ASPECTS OF HEALTHCARE SYSTEMS MANAGEMENT 3 Credit Hours**

Introduce the main components of health care information technology, with emphasis on the components that distinguish the health care delivery system from other business enterprises. Prepares students as clinical managers and consultants who must rely upon or manage information technology to accomplish their objectives.

**Prerequisite:** MGMT 34157.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34159 MANAGING HEALTHCARE SYSTEMS OPERATIONS 3 Credit Hours**

Operational process management, cost-control and productivity is critical to cost-effective healthcare. Covers topics in improving operations such as patient flow, quality (concepts and mechanics) and process improvement. Students become familiar with methods and resources for implementing change in a health care setting, such as a hospital or outpatient clinic. Provides skills to assess current hospital operations and to identify the appropriate tools to address various functional areas, useful for managers, consultants, clinical providers and others. Process improvement methods such as lean thinking, six sigma, statistical tools, flowcharting, queuing models and other tools are covered. Health care settings beyond the hospital, such as outpatient clinics, are included.

**Prerequisite:** MGMT 34157.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34164 ORGANIZATIONAL MENTORING 3 Credit Hours**

Course promotes leadership development through the study of leadership principles, styles, and role models. Students will learn through class lecture and discussion as well as hand-on leadership experience in Exploring Business Interactive Business Seminars (i.e., business labs). Students will work with course instructor to develop a personal leadership plan.

**Prerequisite:** BUS 10123; and minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Laboratory, Lecture, Combined Lecture and Lab

**Contact Hours:** 2 lecture, 2 lab

**Grade Mode:** Standard Letter

**MGMT 34165 DYNAMICS OF LEADERSHIP 3 Credit Hours**

This course discusses management and leadership concepts and does so by blending theory and practice. The course uses case studies, practical application approaches, personal assessment and provides opportunities for students to develop individual and group leadership skills. In addition, many organizational behavior concepts are blended throughout the course.

**Prerequisite:** MGMT 24163 or BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34175 LEARNING TO LEAD 3 Credit Hours**

This is a hands-on learning and leadership course. Classroom time occurs over 4 days at a residential camp before the semester begins. Students learn about leadership from professors, experts in the field, and each other through interactive discussions and activities. During the semester students continue their leadership development working with a personal mentor, and practice their skills through community service projects.

**Prerequisite:** Special approval.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34185 INDIVIDUAL AND GROUP BEHAVIOR IN ORGANIZATIONS 3 Credit Hours**

Determinants of individual and group behavior within work organizations. Topics covered include, motivation, job design, learning, decision making, leadership and group behavior as they relate to performance and other outcomes in work organizations.

**Prerequisite:** MGMT 24163 or BMRT 11009.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 34280 ORGANIZATIONAL CHANGE MANAGEMENT 3 Credit Hours**

This course focuses on understanding the processes and challenges involved in responsible organizational change management. The course will provide students a blend of both research and best practice professional applications.

**Prerequisite:** MGMT 24163 or BMRT 11009; and MGMT 34165; and minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44009 THE BUSINESS CASE FOR SUSTAINABILITY 3 Credit Hours**

(Slashed with MIS 54285) This course describes major global trends in the environment, society, and technology; and explores how they are transforming business and how they are deeply changing work, careers and our quality of life. We examine global markets and needs, as expressed by the United Nations Sustainable Development Goals (SDGs). Understanding these trends will help you make sense of the world in which you live and work and provide insight into an array of career and entrepreneurial opportunities.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44011 SYSTEMS SIMULATION 3 Credit Hours**

(Slashed with MIS 54011) Techniques and applications of computer simulation of existing or proposed real-world systems. Use of simulation language, simulations studies, analysis and interpretation of results.

**Prerequisite:** MGMT 24056.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44050 DATA VISUALIZATION 3 Credit Hours**

(Slashed with MIS 54050) Introduces students to data visualization, and specifically, how to use visualization to communicate information effectively from data. All aspects of effective data visualization, including understanding the context, choosing appropriate graphs and visuals, and communicating the information from data will be considered. While theoretical aspects of effective visualizations will be covered, the focus will be on implementing such designs. Concentrating significantly on the practice of effective visualizations.

**Prerequisite:** MGMT 24056; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44051 MACHINE LEARNING 3 Credit Hours**

Machine Learning is one of the required courses for the Bachelor of Business Analytics (BANA) program. In this course, students learn the fundamentals of machine learning as applied to business problems. Specifically, the course concentrates on regression and classification methods, including regression, random forests, boosting trees, and neural networks, on unsupervised learning including k-means and hierarchical clustering, and on recommendation systems, and ensemble learning.

**Prerequisite:** MGMT 34156; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44061 OPERATIONS MANAGEMENT AND CONTROL 3 Credit Hours**

Introduces the student to the key functions of an operations planning and control system. Operations planning and control systems provide information for the efficient flow of materials, the effective utilization of people and equipment and the proper coordination of internal activities with suppliers and customers.

**Prerequisite:** Minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44062 SUPPLY CHAIN MANAGEMENT 3 Credit Hours**

Students learn the basic analytical tools needed to coordinate business operations across the value chain. Course involves hands-on coverage of supply chain management with emphasis on supplier partnering and development, customer relations management, strategic sourcing and pricing, e-business, measuring supply chain performance, mass customization, planning supply and demand coordination in the supply chain.

**Prerequisite:** Minimum 2.500 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44065 STRATEGIES IN PRODUCTION AND OPERATIONS MANAGEMENT (WIC) 3 Credit Hours**

Senior project in industrial management. Applies concepts from all prior coursework to the solution of real and simulated operating problems.

**Prerequisite:** Minimum 2.500 overall GPA.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MGMT 44096 INDIVIDUAL INVESTIGATION IN MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Presents opportunity to undertake research. Approval of topic and agreement to work with student must be secured from faculty member and the chairperson of the department prior to registration.

**Prerequisite:** Special approval.

**Schedule Type:** Individual Investigation

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MGMT 44099 CAPSTONE IN BUSINESS ANALYTICS (ELR) (WIC) 3 Credit Hours**

In this culminating project, students draw on the breadth and depth of the curriculum to address an industry supplied problem individually or in small teams. Specifically, students will improve, and present their solutions to their respective stakeholders, who will grade your final presentation and report.

**Prerequisite:** MGMT 44051; and senior standing.

**Pre/corequisite:** MGMT 44050.

**Schedule Type:** Lecture, Project or Capstone

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MGMT 44152 PROJECT MANAGEMENT 3 Credit Hours**

This course covers the fundamental concepts, procedures and processes related to managing projects from initiation through planning, execution and closing. It also introduces the principles, tools and methods used in project management, and the use of project management software (ProjectLibre) in managing projects. The topics covered in the course can be helpful in preparing for Project Management Professional (PMP) certification.

**Prerequisite:** Minimum 2.000 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44163 GLOBAL BUSINESS MANAGEMENT (WIC) 3 Credit Hours**

Provides an overview of contemporary issues and theoretical frameworks in the field of international strategic management using traditional lecture and practical application cases.

**Prerequisite:** Minimum C grade in ENG 21011, COMM 15000 and MATH 11010; minimum 2.000 overall GPA; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**Attributes:** Writing Intensive Course

**MGMT 44187 INTERNATIONAL MANAGEMENT EXPERIENCE 3 Credit Hours**

This course focuses on strategy and policy development and execution for gaining and sustaining global competitive advantage. Strategic management of entrepreneurial and well-established firms, and operational and financial structures of international firms and markets are discussed.

**Prerequisite:** MGMT 24163 with a minimum C grade; and minimum 2.500 overall GPA; and sophomore standing; and special approval.

**Schedule Type:** Lecture

**Contact Hours:** 9 other

**Grade Mode:** Standard Letter

**MGMT 44191 SENIOR RESEARCH SEMINAR IN MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Combination of individual or group research and class discussion for superior students. Investigations in administration and organization conducted in accordance with scholarly interests of participants.

**Prerequisite:** Special approval.

**Schedule Type:** Seminar

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**MGMT 44192 INTERNSHIP IN MANAGEMENT (ELR) 3 Credit Hours**

(Repeatable for credit) A supervised field experience requiring a minimum of 145 hours of work at a cooperating organization. Requires regular contact with instructor and preparation of an internship report connecting academic coursework to on the job experiences.

**Prerequisite:** MGMT 24163 with minimum C grade; and minimum 2.500 overall GPA; and special approval.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MGMT 44285 INTEGRATED BUSINESS POLICY AND STRATEGY 3 Credit Hours**

Integration of the functional areas of business in the formulation and implementation of policy. Projects and case analyses of business situations provide students with the opportunity to apply analytical and creative problem solving skills.

**Prerequisite:** ACCT 23020 and ACCT 23021 and ECON 22060 and ECON 22061 and MKTG 25010 and CIS 24053 and MGMT 24056 and MGMT 24163 and MGMT 34060 and FIN 26074 and FIN 36053; and minimum 2.000 overall GPA; and major within the college of business administration; and senior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter

**MGMT 44299 MANAGEMENT CAPSTONE (ELR) (WIC) 3 Credit Hours**

Course integrates various management concepts in informing a manager's strategic decision making process. Students use case analyses and class lectures to demonstrate their leadership abilities in different business scenarios.

**Prerequisite:** ACCT 23020 and ACCT 23021 and CIS 24053 and ECON 22060 and ECON 22061 and FIN 26074 and FIN 36053 and MGMT 24056 and MGMT 24163 and MGMT 34060 and MKTG 25010; and minimum 2.000 overall GPA; and declared in General Business major; and senior standing.

**Schedule Type:** Project or Capstone

**Contact Hours:** 3 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement, Writing Intensive Course

**MGMT 44392 BUSINESS CONSULTING AND PRACTICUM (ELR) 3 Credit Hours**

Provides decision-making tools for solving real-world problems by building synergies in prior knowledge to create a synthesis of real life solutions delivery mechanisms underpinning them to pressing problems of the local and international community. The practicum component includes consulting experience with both for profit and not-for-profit business clients.

**Prerequisite:** MGMT 24163; and minimum 2.000 overall GPA; and senior standing.

**Schedule Type:** Practical Experience

**Contact Hours:** 15 other

**Grade Mode:** Standard Letter

**Attributes:** Experiential Learning Requirement

**MGMT 44395 SPECIAL TOPICS IN MANAGEMENT 3 Credit Hours**

(Repeatable for credit) Offered on a semester basis with different management topics and different faculty involved each time the course is offered.

**Prerequisite:** Minimum 2.000 overall GPA; and junior standing.

**Schedule Type:** Lecture

**Contact Hours:** 3 lecture

**Grade Mode:** Standard Letter