MANAGEMENT (MGMT)

MGMT-510 Foundations of Business 4 Credits
Prerequisites: None
This course provides the prerequisite knowledge necessary for studying management in a graduate program. Students are introduced to both a theoretical understanding, and practical application, of concepts in the disciplines of management, marketing, accounting, finance, economics, and statistics. Through readings, videos, discussion questions, and assignments, students are introduced to basic content from each topic area, as well as APA writing style, in preparation for entry into a graduate management program.
Lecture: 4, Lab 0, Other 0

MGMT-521 Statistical and Quantitative Methods for Managerial Decision 4 Credits
Prerequisites: None
Learn about the principles and techniques for collecting, analyzing, interpreting, and communicating information based on data. Data analysis emphasizes the fundamentals behind designing data collection strategies that lead to useful information for problem solving and process and product improvements. Data analysis techniques include descriptive statistics, basic hypothesis testing, experimental design, and regression analysis. Use of a statistical software will be made to illustrate important data analysis concepts with a focus on understanding the computer output. The project requirement is expected to enable students to apply the data analysis concepts learned in the class. In summary, this course will assist the students to become knowledgeable consumers of data analysis, its applications and limitations.
Lecture: 3, Lab 0, Other 1

MGMT-550 Mgmt Concepts and Applications 2 Credits
Prerequisites: None
Both the art and the science of management will be introduced and examined through multiple perspectives within a global and ethical context. An examination of the functions of a manager builds upon the elements of organizational and behavioral theory. Principles of organizational structure and design will also be discussed. The importance of management in dealing with the complexity of modern organizations will be emphasized throughout.
Lecture: 2, Lab 0, Other 0

MGMT-609 Technology Management 4 Credits
Prerequisites: None
This course is an overview of the management of technology and its impact on contemporary organizational performance. The focus of the course is on the application of skills, and knowledge required of managers and professionals responsible for technology implementation in a product or service development environment. Concepts of cybersecurity and managing technology in the future are considered. Case studies and simulations are used to bring to life the critical challenges confronting managers of technology.
Lecture: 4, Lab 0, Other 0

MGMT-619 Project Management 4 Credits
Prerequisites: ACCT-518 or MGMT-510
This course covers managing projects within an organizational context, including the processes related to initiating, planning, executing, controlling, reporting, and closing a project. Concepts such as project integration, scope, time, cost, quality control, and risk management are highlighted. Identifying project champions, working with user teams, training, and documentation are key concepts of project management that are detailed in the course.
Lecture: 4, Lab 0, Other 0

MGMT-620 Business Communication and Presentation 4 Credits
Prerequisites: None
The ability to listen and craft well-written messages verbally, in writing, and within digital spaces are valued skills among employers regardless of industry. This course is designed to provide opportunities for you to sharpen your writing, improve your editing, hone your critical thinking skills, and create effective persuasive messages. Course content also includes best practices for organizing, revising and presenting information in-person and remotely.
Lecture: 4, Lab 0, Other 0

MGMT-6203 Business Communication and Presentation 3 Credits
Prerequisites: None
The ability to listen and craft well-written messages verbally, in writing, and within digital spaces are valued skills among employers regardless of industry. This course is designed to provide opportunities for students to sharpen writing, improve editing, hone critical thinking skills, and create effective persuasive messages. Course content also includes best practices for organizing, revising and presenting information in-person and remotely. This course is designed for online delivery and available only through Kettering University Online to students in the MS in Engineering: Electrical & Computer Engineering-Advanced Mobility program.
Lecture: 3, Lab 0, Other 0

MGMT-621 Cultural Competency in the Workplace 4 Credits
Prerequisites: None
Leading and managing organizations rich in diversity (race, gender, socioeconomic class, ethnicity, religion, sexual orientation, and life experience) can be both challenging and rewarding. This course is designed to explore the scope of diversity and its impact on building and maintaining productive professional relationships.Personal assessment of cultural competence, as well as identifying strategies for improving cross-cultural communication and harnessing the strength of diverse perspectives in the workplace are highlighted. Increasing the ability to lead diverse teams and departments can enrich individuals personally and provide a distinct competitive advantage for the organizations with whom they work.
Lecture: 4, Lab 0, Other 0

MGMT-622 Organized Labor and Management Relations 4 Credits
Prerequisites: None
Since the Industrial Revolution, unions have been formed in various industries to secure improvements in working conditions and fair wages for their members. This course is designed to offer key details, insights, skills, and techniques for improved working relationships in a union environment. A major focus of this course will include the perspectives of both management working with union members, and union members working with management.
Lecture: 4, Lab 0, Other 0

MGMT-623 Data Analytics 4 Credits
Prerequisites: CS-601
The rise of big data and machine learning has transformed the business world. In fact, these tectonic shifts in the business landscape are labeled as the fourth industrial revolution. Data is the new oil, creating enormous wealth and opportunity for businesses. This course will introduce the strategic importance and applications of these new Artificial Intelligence (AI) technologies. This is a hands-on learning course towards developing skills in using the Python language for data cleaning, exploration and modeling. The overarching aim is to provide a strong start towards developing skills that will eventually lead towards becoming an accomplished data scientist, who understands and is able to apply these skills towards achieving organizational competitive advantage. Students may not receive credit for both MGMT-423 and MGMT-623.
Lecture: 4, Lab 0, Other 0

MGMT-624 Data Visualization 4 Credits
Prerequisites: CS-601
This course encompasses the principles, techniques, aesthetics, and applications of data visualization. Starting with development of the basics of computer programming for visualization, the students learn methods to develop effective univariate, multivariate, and high dimensional data visualizations. The course also covers geographic and text-based visualization techniques. The course uses the highly demanded Python-based packages: Matplotlib, Seaborn, and Plotly. Students will also develop skills in using the grammar of graphics approach encapsulated in ggplot. Students may not receive credit for both MGMT-424 and MGMT-624.
Lecture: 4, Lab 0, Other 0

MGMT-625 Digital Strategy and Competitive Advantage 4 Credits
Prerequisites: None
This course is the intersection of strategic management with data-science. Cases and simulations are used to examine how firms use strategy and data-science to build competitive advantage. The course explores the strategy and dynamics of Artificial Intelligence (AI) based firms. It also brings the perspectives of practicing data-scientists and expand on their roles in reshaping the competitive landscape of their industries. Students may not receive credit for both MGMT-425 and MGMT-625.
Lecture: 4, Lab 0, Other 0

MGMT-629 Management Science 4 Credits
Prerequisites: MATH-258 or MGMT-521 or MGMT-510
This course is intended to develop student facility with a variety of quantitative techniques to facilitate the managerial decision-making process. Simulation approaches are covered along with optimization techniques such as linear programming and stochastic techniques such as queuing models. In this course, students will develop spreadsheet modeling skills, and emphasis will be placed on the application of these quantitative techniques to a variety of managerial areas.
Lecture: 4, Lab 0, Other 0

MGMT-639 Managing People & Organization 4 Credits
Prerequisites: MGMT-550 or MGMT-510
This course is intended to prepare students for management positions in various organizations. Students are introduced to concepts and issues concerning management, and leadership of organizational staff. Subjects include technology-related leadership, organizational communication, change management, lean thinking, human resource issues, decision-making, ethics and persuasion.
Lecture: 4, Lab 0, Other 0

MGMT-649 Ethics and Leadership 4 Credits
Prerequisites: MGMT-639 or MGMT-510
The focus of this course is preparing students for leadership roles in the workplace, and in society, by facilitating knowledge of management and leadership from an ethical perspective. The course includes an overview of the evolution of ethical theories and the role of the leader within the business context. Students use their understanding of business, leadership, team development and the processes of moral reasoning to examine contemporary issues related to organizational leadership and building community partnerships.
Lecture: 3, Lab 0, Other 1

MGMT-659 Strategy 4 Credits
Prerequisites: BUSN-659 and FINC-619 and MGMT-639 and MRKT-679
This course focuses on the formulation, implementation, and evaluation of organizational policy and strategy from the perspective of the senior manager/strategy planner. Additional consideration is given to information technology, global operations, ethics, legal perspectives and the functional level strategies of the organization. The Final Project is an integrative approach designed to have direct application to a current job or future career.
Lecture: 4, Lab 0, Other 0

MGMT-661 Operations Management 4 Credits
Prerequisites: MATH-258 or MATH-408 or MGMT-521 or MFGO-619
This course provides students with an exposure to the core concepts and tools of operations management in both manufacturing and service enterprises. Course content includes an overview of the fundamental importance of coordinated operational activities as students examine how to integrate effective operations across all functional areas of the organization. Emphasis is placed on the importance of adding value, and customer satisfaction, to the long-term viability of both for-profit and not-for-profit firms.
Lecture: 4, Lab 0, Other 0

MGMT-665 Strategic Management 4 Credits
Prerequisites: None
The focus of this course is on strategic investigation, analysis, and planning within organizations. Emphasis is placed on combining analytical and emergent views to produce strategic thinking maps designed to assist leaders in: acknowledging the reality of change, questioning current assumptions and activities, collecting and reviewing data relevant to the industry, and facilitating future organizational development.
Lecture: 4, Lab 0, Other 0

MGMT-669 Supply Chain Management 4 Credits
Prerequisites: None
In this course, students are presented with a conceptual framework for understanding Supply Chain Management (SCM). The course covers concepts, trends, and technologies that enable global SCM. Students consider how customer needs, competitive advantage, operational measures, and financial performance support successful implementation of SCM. Topics covered include aligning information systems, procurement, demand planning and forecasting, inventory management and logistics to support organizational goals.
Lecture: 4, Lab 0, Other 0

MGMT-679 Leadership 4 Credits
Prerequisites: None
A comprehensive examination of different leadership theories and models along with leadership development with emphasis on relevant empirical evidence and application of these constructs to case studies that involve leadership and group functioning. Additionally, process of decision-making in a variety of leadership settings will be introduced, including the processes of leading independently or with direct authority. The distinction between leadership and management, crucial role of leadership when managing groups and teams, and the importance of ethical conduct and persuasion in effective leadership are covered. This course cannot be repeated to earn credits for both MGMT-479 and MGMT-679 and there will be different course requirements for undergraduate and graduate levels.
Lecture: 3, Lab 0, Other 1

MGMT-693 Internship in Management 4 Credits
Prerequisites: None
Guided professional practicum experience for on-campus graduate students serving as an extension of the curriculum that facilitates the development of knowledge and skills in the application of theory to real-world problems in a non-classroom setting. This experiential learning engagement builds upon, applies, and assesses the concepts that are developed through the curriculum and advances the student's professional growth through a meaningful real-world job experience. The internship should be substantial and practical, including analysis, evaluation, and application of management concepts. At least 240 clock hours of on-site work over the term are required for four credit hours. Requires prior approval of the organization in which the internship will be done by the Dean of the School of Management and appropriate review and approval of the specific experience gained. Four-credit hour enrollments in this course will be considered as full-time status. The course can be repeated a second time, however, it will not count toward degree completion once four credit hours are earned. Internships are graded on a Credit/No Credit basis, to be entered by the Dean upon the student's completion of all internship requirements.
Lecture: 0, Lab 0, Other 0