OPERATIONS MANAGEMENT (OPM)

OPM 2070 - Introduction to Business Statistics
Credit(s): 3 Credits
Introduction to descriptive statistics for displaying and summarizing business data; the use of probabilities and random variables in business decision models, probability distribution, statistical inference as a decision-making tool, sampling of business data, simple linear regression and correlation, time series analysis and use of index numbers in economic data. Credit not given for OPM 2070 and any of the following: MATH 1300 or STAT 1300.
Prerequisite(s): (Math Waiver per Advisor with a minimum score of 1200 or 1 Course from MATH 1200-4999)
Restrictions:
Students in the Schi for Professional Studies college may not enroll.

OPM 2930 - Special Topics
Credit(s): 3 Credits (Repeatable for credit)
OPM 2980 - Independent Study
Credit(s): 1 or 3 Credits (Repeatable for credit)
OPM 3050 - Introduction to Management Science and Operations Management
Credit(s): 3 Credits
The objectives of this course are to: 1) acquaint the student with the overall operations research/management science process; 2) expose the student to several most widely utilized operations research/management science and production planning models, along with the solution techniques; 3) familiarize the student with the use of computers in facilitating managerial decisions.
Prerequisite(s): (OPM 2070; (MATH 1320, MATH 1510, MATH 1520, or MATH 2530))
Restrictions:
Students in the Schi for Professional Studies college may not enroll.

OPM 3930 - Special Topics
Credit(s): 3 Credits (Repeatable for credit)
OPM 3980 - Independent Study
Credit(s): 1 or 3 Credits (Repeatable for credit)
OPM 4930 - Special Topics
Credit(s): 3 Credits (Repeatable for credit)
Restrictions:
Students in the Schi for Professional Studies college may not enroll.

OPM 4980 - Independent Study
Credit(s): 1-3 Credits (Repeatable for credit)
Restrictions:
Students in the Schi for Professional Studies college may not enroll.

OPM 5020 - Applied Business Statistics
Credit(s): 3 Credits
This course challenges students to think about business problems in a systematic fashion by reviewing mathematical concepts and developing statistical thinking skills. Statistical thinking can lead to both a better understanding of the problem and can result in higher quality solution options. The course provides coverage of the more widely used statistical methods to aid in problem formulation, data analysis and managerial decision-making. At the end of this course students will have a more sophisticated understanding of the mathematics that underlie probability and statistical concepts, issues involving data interpretation, and decision-making under conditions of uncertainty.
Restrictions:
Students in the Schi for Professional Studies college may not enroll.

OPM 5050 - Operations Management
Credit(s): 3 Credits
The objective of this course are (1) familiarize students with production planning and control (2) to familiarize students with the use of operations research techniques for analyzing and controlling manufacturing, inventory, and operations management systems; and (3) to train students to use computers for making production and operations management decisions.
Prerequisite(s): OPM 5020

OPM 5910 - Graduate Internship
Credit(s): 1-6 Credits (Repeatable for credit)
OPM 5930 - Special Topics
Credit(s): 3 Credits (Repeatable for credit)
Restrictions:
Students in the Schi for Professional Studies college may not enroll.

OPM 5980 - Graduate Reading Course
Credit(s): 1-3 Credits (Repeatable for credit)
OPM 6000 - Forecasting and Demand Management
Credit(s): 3 Credits
Advanced topics in statistical modeling, data analysis and decision making. Extensive use of computer packages and real business databases. Topics include model building and research design; variance and experimental design; multiple regression and correlation analysis; time series and forecasting; statistical quality control; non-parametric procedures; model decision analysis.
Prerequisite(s): OPM 5020
Restrictions:
Students in the Schi for Professional Studies college may not enroll.

OPM 6050 - Business Process and Operations Management
Credit(s): 3 Credits
Designed to familiarize students with decision-making tools and models that are utilized by operational managers, to present business firm integrated operational practices in the manufacturing and service sectors, and to analyze and examine the business strategic planning process from a cross-functional perspective, utilizing case studies. Topics include: operations and supply-chain strategy, project management, strategic capacity management, job scheduling and control, logistics for facility location decisions, aggregate planning, and deterministic/stochastic inventory decisions.
Prerequisite(s): (OPM 5050 or MBA 6220)
OPM 6430 - Quality Improvement/Lean Sigma  
Credit(s): 3 Credits  
This course is intended to serve as an in-depth examination of quality principles applied specifically to manufacturing, service and supply chain environments. Both managerial and statistical aspects will be covered.  
Prerequisite(s): (OPM 5050 or MBA 6220)

OPM 6440 - Global Supply Chain Management Concepts  
Credit(s): 3 Credits  
The objective of Supply Chain Management Concepts is to introduce students to an integrated enterprise approach to business flow of goods and services from suppliers to the customers (procurement, operations management, inventory control, logistics and transportation, distribution and customer service). The term INTEGRATED process is emphasized in this course as opposed to SILO approach. As such, every topic in each area is being discussed in the context of integrated flow of goods and services from suppliers to customers and continuous flow of information from the customers to the suppliers.  
Prerequisite(s): (OPM 5050 or MBA 6220)

OPM 6460 - Global Logistics Management  
Credit(s): 3 Credits  
The objectives of this course are: (1) to acquaint the student with the use of logistics management theory and techniques for analyzing and controlling global manufacturing and operations management systems; (2) to expose the student to several of the most widely utilized models for supply chain management in the manufacturing and service sectors (financial, health care, public sectors, etc.), along with case studies; and (3) to familiarize the student with the use of computer software in facilitating logistics decisions.  
Prerequisite(s): (OPM 5050 or OPM 6050)

OPM 6480 - Strat. Sourcing & Proc. in SCM  
Credit(s): 3 Credits  
This course acquaints students with the use of purchasing and strategic sourcing concepts and techniques to optimize supply chain operations. Total cost of ownership will be the main guideline in making procurement and sourcing decisions.  
Restrictions:  
Students in the Schl for Professional Studies college may not enroll.

OPM 6520 - Transportation and Warehousing Management  
Credit(s): 3 Credits  
This course provides students with the fundamental concepts of managing both transportation systems and warehousing. Topics covered include modes of transportation, issues regarding transportation management, strategic warehouse decisions, warehouse network planning, and equipment used in warehouses and warehouse design. Several case studies will be introduced. Current and emerging technological issues regarding management of both transportation systems and warehousing will be described.  
Prerequisite(s): OPM 5020; OPM 5050

OPM 6930 - Special Topics  
Credit(s): 3 Credits (Repeatable for credit)

OPM 6980 - Independent Study  
Credit(s): 1 or 3 Credits (Repeatable for credit)