OSCM Operations and Supply Chain Management

OSCM 3430 Operations and Supply Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
Application of the supply chain management principles to the planning, control, design, operation, and updating of operational systems both in the manufacturing and service sectors.
Prerequisite(s): A minimum grade of "C" in all of the following: BUSA 3131 or STAT 1401, ECON 2106, ACCT 2102.

OSCM 3437 Service Operations Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course introduces three broad service management topics – service design, service operations management, and quantitative service models. Whereas service design topics include new service design and development, service process flows, and service quality, service operations management focuses on service supply relationships, managing waiting lines, and capacity planning for service provision. These service design and operations management approaches are supplemented with quantitative service models based on queuing theory.
Prerequisite(s): A minimum grade of "C" in BUSA 3131 or STAT 1401.

OSCM 3431 Supply Management
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course introduces three broad topics - strategic supply management, the pay to procure (P2P) process, and supplier relationship management - to facilitate an introductory understanding of supply management. Strategic supply management principles include the basic tenets of SCM, the differences between traditional purchasing and contemporary supply management philosophies, and the development of supply management strategy that is linked to business and corporate strategy. The P2P process involves several activities, such as needs identification, specification development, request for quotes and proposals, statements of work, supplier evaluation and selection, negotiation, and contracting. Supplier relationship management refers to on-going activities that follow supplier selection, like cost management, supplier development, and conflict resolution.
Prerequisite(s): A minimum grade of "C" in LOGT 2232 and OSCM 3430.

OSCM 4435 Six Sigma and Continuous Improvement
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
Introduction to change management and process excellence with a focus on Six Sigma analytic tools and performance management approaches. Analytic tools for documenting and improving sourcing and value-adding processes will be applied in the context of the Six Sigma DMAIC project phases. Course content is closely aligned with the ASQ Certified Six Sigma Green Belt Body of Knowledge.
Prerequisite(s): A minimum grade of "C" in OSCM 3430 or permission of department chair.

OSCM 4436 Supply Chain Analytics
3 Credit Hours. 3 Lecture Hours. 0 Lab Hours.
This course is designed to advance analytical skills for effective supply chain decision-making involving empirical data. Use of sophisticated analytical techniques to design and manage efficient and effective operations and processes will be covered. Formulation and interpretation of models supported by both simulation and spreadsheet based software will be emphasized.
Prerequisite(s): A minimum grade of "C" in BUSA 3132 and OSCM 4435.