

# SCMT - SUPPLY CHAIN MGMT

## SCMT 610 Business Analytics

**Credits 1 to 3. 1 to 3 Lecture Hours.**

Utilization of quantitative tools such as forecasting, optimization and Monte Carlo simulation in order to deal with uncertainties in business and to assist in making better business decisions. May be repeated up to 3 hours credit. Classification 6 students may not enroll in this course.

**Prerequisite:** Enrollment is limited to MBA students.

## SCMT 614 Operations Management

**Credits 1 to 3. 1 to 3 Lecture Hours.**

Theory and applications of designing, analyzing and controlling productive systems in the allocation and use of resources to produce goods and services. May be repeated for up to 3 hours credit. Classification 6 students may not enroll in this course.

**Prerequisites:** SCMT 610 or equivalent; enrollment is limited to MBA students.

## SCMT 616 Supply Chain Management

**Credits 1 to 3. 1 to 3 Lecture Hours.**

Focus on the integrated management of the total product delivery system; purchasing, inventory management and distribution functions with emphasis on physical and information flows.

**Prerequisites:** SCMT 614; MBA classification.

## SCMT 636 Decision Support Systems

**Credits 3. 3 Lecture Hours.**

Use of decision support systems in business-related decision making, business environment, use of models, user interface with decision support systems and decision support systems examples. Classification 6 students may not enroll in this course.

**Prerequisite:** SCMT 303 or equivalent.

## SCMT 638 Information Technology in Supply Chain Management

**Credits 3. 3 Lecture Hours.**

Review, evaluate, and contribute to the existing knowledge base regarding the management of information flows from automatic identification systems such as RFID.

**Prerequisites:** ISEN 615 and PhD students or Masters students with a thesis degree plan or approval of instructor.

## SCMT 645 Business Process Design

**Credits 3. 3 Lecture Hours.**

Introduction to business process design and analysis; tools and techniques to document, analyze and improve business processes; Six Sigma process design and improvement; process metrics; computer simulation of processes; aligning business process with organizational goals and objectives; and case study of real world business problems.

**Prerequisites:** Graduate classification or approval of instructor; SCMT 614, SCMT 660 or approval of instructor.

## SCMT 650 Applied Predictive Analytics for Business

**Credits 3. 3 Lecture Hours.**

Develop an understanding of the role of predictive analytics in shaping business outcomes; provide hands-on, practical approach to implementing predictive analytics tools for gaining competitive advantage in business.

**Prerequisite:** Graduate classification.

## SCMT 667 Logistics and Distribution Management

**Credits 3. 3 Lecture Hours.**

Contemporary logistics activities including inbound and outbound materials and service flows, with special emphasis on their relationships to the firm's manufacturing function. Classification 6 students may not enroll in this course.

**Prerequisite:** SCMT 614 or SCMT 660 or equivalent.

## SCMT 685 Directed Studies

**Credits 1 to 4. 1 to 4 Other Hours.**

Directed study on selected problems using recent developments in business research methods.

**Prerequisites:** Approval of instructor and graduate advisor.

## SCMT 688 Doctoral Seminar in...

**Credits 3. 3 Lecture Hours.**

Evaluation of current research and controversial issues in management information systems, production/operations management or management science. May be repeated for credit five times as content varies. For doctoral students only.

**Prerequisite:** Approval of department head.

## SCMT 689 Special Topics in...

**Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.**

Selected topics in identified areas of operations and supply chain management.

## SCMT 690 Theory of Research in Information and Operations Management

**Credits 3. 3 Lecture Hours.**

Design of research and the evaluation of research results using examples from the current research literature. Classification 6 students may not enroll in this course.

**Prerequisite:** Approval of instructor.

## SCMT 691 Research

**Credits 1 to 23. 1 to 23 Other Hours.**

Research for thesis or dissertation. Classification 6 students may not enroll in this course.

## SCMT 705 Global Operations

**Credits 1 to 4. 1 to 4 Lecture Hours.**

Concepts, techniques and tools to design, analyze and improve core operational capabilities; production control; inventory management; quality management; process design; forecasting; product design; facility layout; capacity planning.

**Prerequisite:** For Master of Science in Business students only.