SCMT - SUPPLY CHAIN MGMT (SCMT)

SCMT 300/ISYS 300 Business Communications I
Credit 1. 1 Lecture Hour.
Proper techniques for writing major-specific business communications; progress report, memorandum, letter, executive summary; verbal communications via phone call and person-to-person communications; critiques of personal and peer writing.
**Prerequisites:** Junior or senior classification; SCMT majors only.
Cross Listing: ISYS 300/SCMT 300.

SCMT 303 Statistical Methods
Credits 3. 3 Lecture Hours.
Collection, tabulation and presentation of numerical data; sampling, estimation of averages and variation, probability and error, hypothesis testing and correlation.
**Prerequisite:** Admission to upper division in Mays Business School.

SCMT 305 Intermediate Business Statistics
Credits 3. 3 Lecture Hours.
Selected topics in statistical analysis; practical applications to functional problems in accounting, finance, marketing and management; applications of existing computer programs minimize computations.
**Prerequisite:** SCMT 303 or STAT 301, STAT 302, or STAT 303.

SCMT 309 Supply Chain Management Principles
Credits 3. 3 Lecture Hours.
Integrated management of the make, buy and delivery processes in firms; emphasis on issues specific to the procurement, manufacturing, and logistics disciplines; requirements for operating in a global marketplace; includes cultural, functional and strategic aspects of global business.
**Prerequisite:** ISTM 209; junior classification; University Studies Business Concentration students only.

SCMT 335 Sourcing and Procurement
Credits 3. 3 Lecture Hours.
Processes to identify and manage suppliers for goods and services to support operations; including sourcing, contracting, negotiations, buying procedures, cost and price analysis, vendor relations, auditing and inspection, supplier relations, and applications to information technology systems.
**Prerequisite:** SCMT 364 with a grade of C or better; SCMT 340 and SCMT 361; or approval of instructor.

SCMT 336 Decision Support Systems
Credits 3. 3 Lecture Hours.
Application of quantitative decision-making techniques to management decision problems; focus on model development, solution and implementation of results.
**Prerequisites:** SCMT 364; junior or senior classification.

SCMT 340 Global Supply Chain Management
Credits 3. 3 Lecture Hours.
Extend knowledge of basic concepts of transportation and logistics to specialized situations in international business in order to understand (a) the international trade and commercial environment, (b) exporting and importing documentation and procedures and (c) operations involving international shipping and transportation.
**Prerequisite:** SCMT 364 with a grade of C or better.

SCMT 345 Business Process Design
Credits 3. 3 Lecture Hours.
Design, implementation and improvement of the processes by which a firm sources, makes, and delivers products and services to meet customer requirements; includes six-sigma, process flow charting, computer simulation, and other techniques to document, analyze, design and improve business processes.
**Prerequisite:** SCMT 364 with a grade of C or better; SCMT 340 and SCMT 361; or approval of instructor.

SCMT 361 Operations Planning and Control
Credits 3. 3 Lecture Hours.
Planning and controlling the conversion of materials, labor, capital, and information into goods and services for both manufacturing and service organizations; emphasis on managerial and technical aspects of planning and controlling operating systems.
**Prerequisite:** SCMT 364 with a grade of C or better; or approval of instructor.

SCMT 364 Operations Management
Credits 3. 3 Lecture Hours.
Concepts, issues and techniques used to plan, analyze, and control systems of production; operational problems in producing goods and services.
**Prerequisite:** SCMT 303 or STAT 301, STAT 302, or STAT 303 or concurrent enrollment; admission to upper division in Mays Business School.

SCMT 370/ISTM 370 Introduction to Energy Industry
Credits 3. 3 Lecture Hours.
History of the modern Oil & Gas Industry; ecosystem of companies driving the industry; operations involved in exploration, production, refining, trading, pipeline, and retail in bringing oil to market; accounting and economics of the industry; issues and solutions in supporting supply chain; discussion of technology innovations occurring in the industry.
**Prerequisite:** Admission to upper division in Mays Business School.
Cross Listing: ISTM 370/SCMT 370.

SCMT 375 Supply Chain Security
Credits 3. 3 Lecture Hours.
Security of global supply chains; selection of appropriate technologies utilized in securing global supply chains; planning responses to disaster events in relation to the delivery and receipt of goods and services; designing draft security policies for an organization's supply chain.
**Prerequisite:** SCMT 364.

SCMT 380 Lean Business Systems
Credits 3. 3 Lecture Hours.
Analysis of real world business challenges using an operational framework to identify and solve problems; provides a route map to sustain results; exploration of lean strategies such as root cause analysis, batch to pull processes, value stream mapping, level loading, line balancing.
**Prerequisite:** Admission to upper division in Mays Business School.

SCMT 381 Lean Business Tools and Techniques
Credits 3. 3 Lecture Hours.
In-depth and hands-on look into specific Lean tools used to solve specific tactical problems; standard work strategies, time studies, waste simulation, PFEPs, productive maintenance, visual daily management systems, and Kaizen events.
**Prerequisite:** Admission to upper-division in Mays Business School.
SCMT 400/ISYS 400 Business Communication II
Credit 1. 1 Lecture Hour.
Development of critical interpersonal and oral communication skills; strategies for positive team development; conflict resolution; oral presentations and information elicitation; production of effective visual aids.
Prerequisites: Junior or senior classification; SCMT majors only.
Cross Listing: ISYS 400/SCMT 400.

SCMT 464 Advanced Supply Chain Management
Credits 3. 3 Lecture Hours.
Advanced contemporary topics in supply chain and operations management; developing analytical insights into the operation of selected methodologies.
Prerequisites: SCMT 340 and senior classification.

SCMT 465 Information Technology for Supply Chain Management
Credits 3. 3 Lecture Hours.
Overview of information technology applications for planning and controlling the design, manufacture and distribution of goods and services; managerial and technical aspects of information technology for product design, shop floor, factory, enterprise and supply chain management.
Prerequisite: SCMT 340 with a grade of C or better; SCMT 361; or approval of instructor.

SCMT 468 Enterprise Resource Planning
Credits 3. 3 Lecture Hours.
Application of advanced information technology for integrating business functions through distributed databases; applications for planning, scheduling, purchasing and costing to multiple layers of the organization.
Prerequisite: SCMT 364.

SCMT 484 Supply Chain Management Internship
Credits 1 to 4. 1 to 4 Other Hours.
A directed internship in an organization to provide students with a learning experience supervised by professionals in organizational settings appropriate to the student’s professional objectives. Must be taken on a satisfactory/unsatisfactory basis.
Prerequisite: SCMT major and approval of academic advisor and instructor.

SCMT 485 Directed Studies
Credits 1 to 4. 1 to 4 Other Hours.
Directed study of selected problems in an area of supply chain management not covered in other courses.
Prerequisites: Admission to upper division in Mays Business School and approval of academic advisor and instructor.

SCMT 489 Special Topics In...
Credits 1 to 4. 1 to 4 Other Hours.
Selected topic in an identified field of supply chain management two times for credit.
Prerequisites: Admission to upper division in Mays Business School and approval of academic advisor and instructor.