

SCMT - SUPPLY CHAIN MGMT (SCMT)

SCMT 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.

Prerequisite: Grade of C or better in SCMT 364; concurrent enrollment in SCMT 361; junior or senior classification; SCMT majors.

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: BUSN 203 or STAT 211.

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 334 Purchasing Practices

Credits 3. 3 Lecture Hours.

Operational practices to run a purchasing department; understanding the types of specifications; identifying and quantifying costs to make versus buy; identifying, soliciting, qualifying domestic and international suppliers; selecting suppliers; estimating the total cost of ownership; devising compensation agreements; understanding the legal framework; and assuring ethical practices.

Prerequisite: SCMT 364 with a grade of C or better; admission to upper division in Mays Business School.

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 Data Analytics with Optimization

Credits 3. 3 Lecture Hours.

Application of quantitative decision-making techniques to management decision problems; focus on model development, solution and implementation of results; optimization.

Prerequisites: SCMT 364; junior or senior classification; also taught at Galveston campus.

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: Grade of C or better in SCMT 364 or INFO 364 or approval of instructor; concurrent enrollment in SCMT 300.

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: BUSN 203 or STAT 211 or concurrent enrollment; ACCT 230 or concurrent enrollment; ISTM 210, AGEC 217, or MARA 250, or concurrent enrollment; admission to upper division in Mays Business School or admission to Maritime Administration major (MARA); also taught at Galveston campus.

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 390 Blockchain and AI Business Transformation

Credits 3. 3 Lecture Hours.

Transforming processes and business models through the application of advanced technologies; blockchain and Artificial Intelligence (AI); focus on underlying technologies, business process design, business case development and consulting; final project presentation of a new process or model and a supporting business case.

Prerequisite: SCMT 364 or FINC 341; admission to upper-division in Mays Business School.

SCMT 455/ISTM 455 Cybersecurity Management

Credits 3. 3 Lecture Hours.

Explores business, managerial and technological aspects of information and cybersecurity; analysis, design, implementation and management issues surrounding effective information security; includes risk management, business continuity planning, and security policy development.

Prerequisite: ISTM 310 or SCMT 375.

Cross Listing: ISTM 455/SCMT 455.

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 469 Transportation Management Systems

Credits 3. 3 Lecture Hours.

The discipline of transportation management; exploration of the transportation function as related to the different modes, role of government, carrier management, transportation economics and current trends in the field.

Prerequisite: SCMT 364 and admission to upper division in Mays Business School.

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.