

SCMT - SUPPLY CHAIN MGMT (SCMT)

SCMT 281 Supply Chain Management Professional Development

Credit 1. 1 Other Hour. Exposure to professional issues, contemporary supply chain and operations topics, potential supply chain career options, and supply chain management employers. Must be taken on a satisfactory/unsatisfactory basis. **Prerequisites:** Admission to Mays Business School; intended SCMT major.

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 Forecasting and the Statistical Foundation of Business Analytics

Credits 3. 3 Lecture Hours. Selected topics in forecasting and the statistical foundation of business analytics; practical applications to supply chain management and other business functions. **Prerequisites:** 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 Managing Logistics and Supply Chain Operations

Credits 3. 3 Lecture Hours. Integration of activities and processes needed to compete in a highly competitive global environment; application of methods and tools that generate competitive advantage, develop inventory models, conduct transportation analysis, evaluate strategic network configurations, and develop cohesive, competitive advantage generating strategies. **Prerequisite:** Grade of C or better in SCMT 364.

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. **Prerequisites:** Grade of C or better in SCMT 364 or INFO 364 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:** BUSN 203 or concurrent enrollment and admission to upper division in Mays Business School, Agribusiness, or Maritime Business Administration; 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 481 Seminar

Credit 1. 1 Other Hour. Exposure to professional issues, contemporary supply chain and operations topics, potential supply chain career options, and supply chain management employers. Must be taken on a satisfactory/unsatisfactory basis. **Prerequisites:** Admission to upper division in Mays Business School; or approval of instructor.

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.