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. **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 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.