

SCMT – SUPPLY CHAIN MANAGEMENT

SCMT 200

Introduction to Global Supply Chain Management

3 Credits Weekly (3-0-0)

Students learn the importance of logistics and the supply chain processes in a global context. Students investigate in detail the various components and drivers of the supply chain and their requirements which are essential to the competitive success of a company. Topics include an overview of global supply chain and relationships among stakeholders, strategic fit in the supply chain, supply chain drivers (supply management, inventory management, logistics, and information availability), supply chain integration, and supply chain risk management. Contemporary issues and trends in global supply chain management are integrated into the above-mentioned topics.

Prerequisites: BUSN 201 or ORGA 201.

SCMT 205

Introduction to e-Business

3 Credits Weekly (3-0-0)

Students learn both the management and technical skills to design and implement an e-Business platform. Students focus on management issues surrounding web deployment and the alignment of the information technology to corporate strategy. Topics include: hardware and software infrastructure, data storage and retrieval, design and maintenance of the corporate web, marketing, branding, revenue models and risk management. Credit can be obtained in only one of ASCM 205 or SCMT 205.

Prerequisites: BUSN 201.

SCMT 305

Transportation Management

3 Credits Weekly (3-0-0)

Students learn transportation modes (road, rail, water, air, pipeline and multi-modal transportation), their place in the economy, and the regulatory environment in which they operate. Students also study advanced aspects of transportation operations from various perspectives: the carrier's, the shipper's, and the logistics service provider's. Topics include some elements of transportation economics, cost/service characteristics of the transportation modes, selection of carriers and routes, use of third party logistics (3PL), terminal services, freight consolidations, shipping schedules, information/ documentation flows, and transportation risk management. The focus is on the transportation contract and carrier-shipper relationships within global as well as domestic supply chain context. Credit can be obtained in only one of ASCM 305 or SCMT 305.

Prerequisites: ECON 102.

SCMT 307

Principles of Quality Management

3 Credits Weekly (3-0-0)

Students develop theoretical understanding and skills that will allow them to use Quality Management principles as a way to maintain excellence in production and service organizations. Students study a number of quality-related philosophies and frameworks, and will further examine how an effective focus on customers, people, processes, leadership, and product design can contribute to quality and ultimately to sustained success. The course will also examine the use of problem-solving tools and statistical approach to continuously improve quality while maintaining a supply chain focus throughout.

Prerequisites: MARK 301, MGTS 103, and SCMT 200.

SCMT 320

Supply Chain Resource Planning

3 Credits Weekly (3-0-0)

Students explore contemporary as well as traditional approaches to resource planning and scheduling in the supply chain. Students evaluate operations processes such as make-to-stock, assemble-to-order, and make-to-order systems. Students examine modules in supply chain planning, scheduling, and resource allocation using various applications and discuss ways to improve supply chain resource planning and scheduling system. Credit can be obtained in only one of ASCM 302 or SCMT 320.

Prerequisites: MGTS 352 and MSYS 200.

SCMT 322

Business Logistics Management

3 Credits Weekly (3-0-0)

Students study logistics systems and strategy with a focus on distribution from production to consumer. Topics include: alignment between business and logistics strategy; performance measurement; distribution network design and facility location; warehousing and materials handling systems; inventory management; transportation and delivery route planning; the use of third-party logistics providers (3PLs); and select topics related to environmental sustainability (such as extended producer responsibility and collection logistics).

Prerequisites: MGTS 352.

SCMT 324

Procurement and Supply Management

3 Credits Weekly (3-0-0)

Students build on business knowledge to explore key concepts of corporate procurement and supply management and to further utilize skills in business negotiations. The course introduces the role of procurement and supply management within the context of an organization's operations and proceeds to assess its alignment with the overall supply chain strategy. The course discusses the importance of supply management and business negotiations in developing and fostering contractual relationships and strategic alliances with suppliers in the global supply network. Credit can be obtained in only one of ASCM 203 or SCMT 324.

Prerequisites: SCMT 200.

SCMT 403**Supply Chain Coordination and Risk Management****3 Credits Weekly (3-0-0)**

Students integrate the practice and theory of advanced topics in supply chain management. Students analyze comprehensive case studies and develop both general and specific approaches to attain supply chain integration under business settings defined by risks and dynamics at both local (national) and global levels. Students expand and apply knowledge in global supply chain management as they aim to gain insights into the essence of balancing coordination efforts and risk management. Topics include: alignment of supply chain strategy to corporate strategy, logistics network design, managing variation and risk along the supply chain, supply chain coordination, risk management, and disaster and humanitarian supply chain. Credit can be obtained in only one of ASCM 403 or SCMT 403.

Prerequisites: SCMT 320.

SCMT 407**Global Sourcing and Logistics****3 Credits Weekly (3-0-0)**

Students expand and apply their knowledge of global sourcing, transportation, and logistics in an international setting. The course covers strategic and operational logistics decisions surrounding global sourcing. Topics include planning of international sourcing, international transportation and logistics, international commercial (INCO) terms and payment mechanisms, and tariff treatments and import documentation. Credit can be obtained in only one of ASCM 407 or SCMT 407.

Prerequisites: SCMT 305 and SCMT 324.

SCMT 408**Business Negotiations and Supplier Management****3 Credits Weekly (3-0-0)**

Students utilize their knowledge and skills in business negotiations and supplier management to plan and execute negotiations in order to facilitate the development of strategic alliances and partnerships within the supply chain. Topics include business negotiation, strategic sourcing and alliances, process development and maintenance, supplier management and assessment, and competitive bidding. Credit can be obtained in only one of ASCM 408 or SCMT 408.

Prerequisites: SCMT 324, LEGL 210, and ORGA 201.

SCMT 425**Supply Chain Process Management****3 Credits Weekly (3-0-0)**

Students develop the knowledge and tools for design, improvement, and integration of supply chain processes within an organization and among business partners. Through use of a supply chain operation reference (SCOR) model, supply chain mapping, and simulation tools, students are able to analyze and integrate collaborative supply chain processes based on best practices. Topics include supply chain improvement projects, business process re-engineering and integration, lean operations and process flow management, six-sigma quality programs, flow variability and process capability, supply chain performance measurements, and bench marking supply chain processes against world class companies.

Prerequisites: SCMT 307, SCMT 320, SCMT 322, SCMT 324.

SCMT 497**Special Topics in Supply Chain Management****3 Credits Weekly (0-0-3)**

This course involves reading, discussing and critically evaluating current research on specialized topics of interest to senior students in the Bachelor of Commerce. Topics covered vary with the interests of students and faculty and may include an applied field research component in business, government or community. Students should consult with faculty members in the Department of Decision Sciences and Supply Chain Management for details regarding current offerings. This course can be taken twice for credit.

Prerequisites: Minimum of C- in one 300 level SCMT (p. 1) course and consent of the department chair or designate.

SCMT 498**Independent Studies in Supply Chain Management****3 Credits Weekly (0-0-3)**

In consultation with, and supervised by, a member of the department or an approved professional in the community, a senior student undertakes advanced scholarly work related to the field of supply chain management. The faculty member guides the student in designing and undertaking this work, using appropriate assumptions and methods to arrive at warranted conclusions and outcomes that will advance supply chain management knowledge or practice or create meaningful results. Note: This course may be taken twice for credit.

Prerequisites: Consent of the course instructor and the department chair.