

Logistics and Supply Chain Management (SCLM)

SCLM 500 Introduction to Supply Chain Management and the Profession 3 Credits (3,0)

Basic principles of supply chain management. Overview of supply chain management evolution, objectives, stages, processes, and performance metrics.

Course Offered at: Worldwide, Asia

SCLM 511 Operations Research 3 Credits (3,0)

Advanced study of mathematical and scientific tools in managerial decision-making; design and operation of systems under conditions requiring resource allocation; applications in aviation industries, including linear programming, probabilistic dynamic programming, game theory, forecasting, queuing theory, transportation, decision-making under uncertainty, network models, and Markov chains.

Course Offered at: Daytona Beach, Worldwide

SCLM 540 Procurement for Logistics Managers 3 Credits (3,0)

Principles of procurement in supply chain management. Legal and financial implications; integration with operations, logistics, and quality. Use of procurement pricing strategies and SAP for business processes.

Prerequisites: SCLM 500

Course Offered at: Worldwide, Asia

SCLM 550 Production and Material Control 3 Credits (3,0)

Systems perspective of production and operations. Management of product, process, and supply chain design. Measurement and analysis of internal processes.

Prerequisites: SCLM 500

Course Offered at: Worldwide, Asia

SCLM 560 Transportation 3 Credits (3,0)

Technical, operational, and economic characteristics of freight and passenger transportation modes. Regulatory constraints, carrier strategies, alliances, metrics, security, and IT in transportation management.

Prerequisites: SCLM 500

Course Offered at: Worldwide, Asia

SCLM 599 Special Topics in Logistics and Supply Chain Management 1-6 Credit (1-6,0)

Individual, independent, or directed studies of selected topics in logistics and supply chain management.

Course Offered at: Daytona Beach, Prescott, Worldwide

SCLM 600 Enterprise Process Integration using SAP S/4 HANA 3 Credits (3,0)

Understanding business processes across functional areas using SAP S/4 HANA. Managing integrated transactions with real-world examples and cases.

Prerequisites: SCLM 500

Course Offered at: Worldwide

SCLM 603 Aerospace Production and Operations Management 3 Credits (3,0)

Advanced study of production and operations management in a global aerospace environment; blending industrial engineering, cost accounting, reliability, availability, and general management in core production and control activities; examination of global competition, quality, technology transfer, and worker involvement.

Course Offered at: Daytona Beach

SCLM 630 Enterprise Process Configuration using SAP S/4 HANA 3 Credits (3,0)

Configuring ERP systems using SAP S/4 HANA to execute business processes.

Prerequisites: SCLM 500

Course Offered at: Worldwide

SCLM 646 Air Cargo Logistics Management 3 Credits (3,0)

Planning and operations of air cargo systems; components of air cargo, competition with surface transportation, network planning, demand analysis, revenue management, strategic alliances, security, and e-commerce in air cargo; air cargo management software and market analysis case studies.

Course Offered at: Daytona Beach

SCLM 651 Supply Chains in the Global Environment 3 Credits (3,0)

Economic impact of global logistics. Role of supply chain management in meeting the demands of global enterprises from raw materials to customer delivery.

Prerequisites: SCLM 500

Course Offered at: Worldwide, Asia

SCLM 673 Lean Six Sigma in Aviation and Aerospace 3 Credits (3,0)

Lean Six Sigma (LSS) theory and its application in aviation/aerospace; history of Six Sigma, JIT/Lean, and LSS; Quality Function Deployment (QFD) models; DMAIC process; blending product/process and customer specifications in product/service design.

Course Offered at: Daytona Beach

SCLM 683 Supply Chain Management 3 Credits (3,0)

Supply chain management, including evolution, objectives, planning, and strategic fit; major drivers of performance, key metrics, planning and forecasting under uncertainty, Supply Chain Operations Reference (SCOR) Model; case studies highlighting principles and best practices.

Course Offered at: Daytona Beach

SCLM 692 Logistics and Supply Chain Management Simulation 3 Credits (3,0)

Simulation of logistics and supply chain management concepts.

Prerequisites: SCLM 500, SCLM 511, AVMG 630, SCLM 540, SCLM 550, and SCLM 560

Course Offered at: Worldwide

SCLM 799 Special Topics in Logistics and Supply Chain Management 1-6 Credit (1-6,0)

Individual, independent, or directed studies of selected topics in logistics and supply chain management.

Course Offered at: Daytona Beach, Prescott

SCLM 835 Doctoral Seminar in Air Cargo and Logistics 3 Credits (3,0)

Research in logistics and air cargo management; opportunity to conduct research on topics of interest in air cargo and logistics.

Course Offered at: Daytona Beach

SCLM 840 Doctoral Seminar in Aviation and Aerospace Operations Management 3 Credits (3,0)

Exploration of the latest research in aviation and aerospace operations management.

Course Offered at: Daytona Beach

SCLM 855 Doctoral Seminar in Aviation and Aerospace Supply Chain Management 3 Credits (3,0)

Latest research in supply chain management with a focus on aviation and aerospace industries.

Course Offered at: Daytona Beach

SCLM 899 Special Topics in Logistics and Supply Chain Management 1-6 Credit (1-6,0)

Individual, independent, or directed studies of selected topics in logistics and supply chain management.

Course Offered at: Daytona Beach, Prescott