

# BUSC - SUPPLY CHAIN MANAGEMENT

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## **BUSC 310 Project Management (3 Credit Hours)**

This course introduces the principles and practices of project management. Students learn how to initiate, plan, execute, monitor, and close projects while managing scope, time, cost, quality, and risk. Emphasis is placed on project planning tools, scheduling techniques, resource allocation, and team coordination. Students apply project management frameworks to real-world business using industry-relevant software and methodologies.

**Academic Level:** Undergraduate

## **BUSC 320 Quality Management (3 Credit Hours)**

This course examines the concepts and tools used to manage and improve quality in manufacturing and service organizations. Topics include quality planning, statistical process control, continuous improvement, Six Sigma principles, and process capability analysis. Students develop analytical skills to measure, monitor, and improve quality performance and explore the role of quality management in achieving operational excellence and customer satisfaction.

**Academic Level:** Undergraduate

## **BUSC 410 Supply Chain Analytics (3 Credit Hours)**

This course focuses on data-driven decision-making in supply chain management. Students learn to analyze and interpret data related to demand forecasting, inventory management, transportation, and network design. Emphasis is placed on quantitative modeling, optimization, simulation, and the use of analytics tools to solve complex supply chain problems. The course prepares students to leverage data for improving efficiency, responsiveness, and strategic decision-making across the supply chain.

**Academic Level:** Undergraduate

## **BUSC 420 Logistics & Transportation (3 Credit Hours)**

This course explores the planning and management of logistics and transportation systems within domestic and global supply chains. Topics include transportation modes, carrier selection, routing, warehousing, distribution strategies, and cost trade-offs. Students examine the role of logistics in customer service, sustainability, and supply chain performance, and develop strategies to optimize the movement and storage of goods.

**Academic Level:** Undergraduate

## **BUSC 430 Procurement and Sourcing (3 Credit Hours)**

This course examines strategic sourcing and procurement processes in supply chain management. Topics include supplier selection, negotiation, contract management, global sourcing, and risk management. Students learn how organizations develop supplier relationships, manage costs, and ensure quality and reliability in sourcing decisions. The course emphasizes the strategic role of procurement in creating competitive advantage and supporting organizational goals.

**Academic Level:** Undergraduate

## **BUSC 480 Supply Chain Manage Capstone (3 Credit Hours)**

This capstone course integrates concepts from across the supply chain management curriculum. Students work on comprehensive, real-world projects that require the application of analytics, operations, logistics, and sourcing knowledge to solve complex business problems. Emphasis is placed on strategic decision-making, cross-functional integration, and professional communication. Students synthesize their learning to develop actionable recommendations and present solutions to stakeholders.

**Academic Level:** Undergraduate

## **BUSC 630 Operations & Supply Chain Management (3 Credit Hours)**

This course examines the strategic role of operations and supply chains in business success. Students will explore process optimization, logistics, inventory management, and supplier relationships. Emphasizing data-driven decision-making and sustainability, the course equips students with skills to enhance efficiency, reduce costs, and create value across the supply chain.

**Academic Level:** Graduate

Enrollment is limited to Graduate level students.

## **BUSC 640 Project Management for Operational Excellence (3 Credit Hours)**

This course prepares MBA students to lead projects that achieve operational excellence across business functions. Students will learn core project management skills, including scope definition, scheduling, budgeting, resource allocation, and risk management. The course also emphasizes leadership, effective communication, and fostering collaboration across interdisciplinary and global teams in dynamic, rapidly changing environments.

**Academic Level:** Graduate

Enrollment is limited to students with a program in Business Administration.

## **BUSC 650 Operations and Optimization in Last-Mile Delivery (3 Credit Hours)**

This course explores last-mile delivery operations across package, grocery, and meal delivery services. Students will gain an understanding of the different business models used in these sectors, the key operational decisions they require, and how those decisions influence costs, service levels, and profitability. The course introduces practical analytical tools and frameworks to support decision-making, with a focus on real-world applications.

**Academic Level:** Graduate