

Professional Studies Supply Chain Management (MPSC)

MPSC 5000 Ethics Corp. Soc. Res. in SC 3 Credits

This course introduces students to Corporate Social Responsibility (CSR) in supply chain and covers practical, real world topics such as: sourcing sustainable products from vendors, measuring and reporting environmental impacts, ethical sourcing, safety and quality assurance, diverse suppliers, human rights in the supply chain, and implementing a supplier code of conduct. The course will cover global views on CSR including the Global Reporting Initiative. Additionally, this course discusses ethical considerations encountered in supply chain management.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the School of Continuing Studies college.

MPSC 5520 Intro. to Ops SCM 3 Credits

This course introduces students to operations and supply chain management and orients them to the curricular areas of emphasis: Planning, Procurement Management, and Logistics & Fulfillment Management. Students will be introduced to a variety of tools, techniques, concepts, and theories. Topics will include demand planning, process design and improvement, quality evaluation, procurement, capacity analysis, logistics management and inventory management. This course will employ simulations, guest speakers, and case studies to immerse students in the world of supply chain management and help them understand essential terminology and current challenges.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the School of Continuing Studies college.

MPSC 5530 Cost Financial Analysis 3 Credits

This course challenges students to consider the linkages between supply chain management and corporate finance. Students learn to anticipate how supply chain decisions affect various stakeholders, both inside and outside the company, including how supply chain decisions create value for shareholders. Topics include accounting fundamentals, cost allocations, standard costing, activity-based costing, transfer pricing, working capital management, KPIs and dashboards, Total Cost of Ownership, and cash flow projections.

This course also covers the fundamentals of supply chain finance, including topics such as payables discounting, reverse factoring, lease versus buy, and trade credits. Finally, the course introduces students to a variety of global supply chain and global trade topics, including duty and quotas, taxes, hedging, currency issues, and the mechanics of global joint ventures.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

MPSC 5555 Supply Chain Design 1.5 Credits

This course teaches students how to drive better business performance by structuring the supply chain in ways that enhance profitability, align with the strategic goals of the organization, and ultimately create shareholder value. Students are introduced to the theory and practice of mapping supply chain processes, logistics management, strategic partnership development, risk management, single versus dual-sourcing, organizational integration, and outsourcing versus insourcing in the context of how to build an effective supply chain. Students work through case study examples and simulations to identify how organizations must balance all the factors that drive Total Cost of Ownership and profitability.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

MPSC 5565 Project Management 1.5 Credits

This course provides an overview of the project management lifecycle and associated processes. Students gain a solid grounding in fundamental project management concepts and learn how to develop a project charter, components of a project management plan, and a work breakdown structure (WBS). Students also learn how to assess risks, develop contingency plans, and create a change management plan.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

MPSC 5575 Supply Chain DsgnPrjct Mngmt 3 Credits

This course teaches students how to align key supply chain decisions and process flows with the organization's mission and goals and to increase resiliency. It also equips students with the skills to manage the planning and change management for continuous improvement projects. Students are first introduced to the many inflection points in supply chains and the tradeoffs and how these play into meeting an organization's goals and mission. Then in the first half of the course, students learn fundamental concepts for constructing supply chain process flows. In the second half of the class, students acquire core skills and techniques needed to successfully manage time-bound projects meant to further optimize those ongoing processes. Students will gain a solid grounding in supply chain mapping, sourcing strategies, TCO, project charters, work breakdown structures (WBS), and project management plans.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to students with a major in Supply Chain Management, Supply Chain Management, Supply Chain Management or Supply Chain Management.

Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.

MPSC 6000 SC Analytics Tech. 3 Credits

This course teaches students the primary quantitative and qualitative methods of analysis required to understand, forecast and address variability in the supply chain. Topics include forecasting systems, forecasting integration with strategic partners, typical forecasting fallacies, market analysis techniques, market testing, matching demand and supply, and quantitative forecasting methodologies and concepts, such as single, double, and triple exponential smoothing.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.

MPSC 6660 Data Mgt Visualization 3 Credits

This course introduces data management structures and platforms, data governance and collaborative data management practices, global product classification standards, information hierarchies and attributes, data analysis, procure to pay and information technology fundamentals for supply chain management.

Topics covered include data modeling, relational databases, data extraction, data queries, and reporting.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

MPSC 6715 Securing Digital SC 3 Credits

This course examines how organizations are increasing the security of their supply chains for critical products, materials, and systems. Students will focus on digital threats and vulnerabilities. The course explores case examples and industry and government best practices related to mitigation tools, strategies, and protective measures of Supply Chain Risk Management (SCRM) programs.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

MPSC 6800 AI Fundamentals for Prgm Mngrs 3 Credits

The course provides a non-technical introduction to Artificial Intelligence, the techniques used to power modern AI systems, and the functional differences between levels of machine intelligence. It aims to demystify Artificial Intelligence for the business professional, offering a foundational understanding of the advantages, limitations, and scope of AI from a management perspective. Students will define and discuss AI-related concepts and techniques, including machine learning, natural language processing, and robotics. They will examine how humans and machines learn and how that is related to the current and future state of AI. Finally, students will gain insights into the data characteristics and considerations necessary for AI success. At the end, students will develop an organizational AI strategic plan.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to students with a major in Supply Chain Management, Supply Chain Management, Supply Chain Management or Supply Chain Management.

Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.

MPSC 6810 AI Applications and Strategies 3 Credits

This course will discuss the day-to-day applications of AI in a variety of industries such as government, manufacturing and agriculture, education, healthcare, and finance. The course will use a mix of common industry use cases to showcase how embedded AI is in every type of industry, and how to best use the resources available. The course will also highlight popular AI applications for common business functions. Students will discuss the role of AI in specific contexts of functional areas such as sales, marketing, customer service, supply chain, legal, and human resources. They will identify opportunities for AI adoption within their organization and develop strategies and business plans for implementation and deployment.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the School of Continuing Studies college.

MPSC 7000 Strategic Sourcing/Contracting 3 Credits

This course teaches students how to develop and execute a Strategic Sourcing Plan. Students will learn about methods, techniques and technology for strategic sourcing RFX events, contracting fundamentals and approaches, and supplier relationship management.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

MPSC 7009 PublicSpeakingforProfessionals 3 Credits

Researchers interviewed over 9,000 Americans in a nationwide survey and their subjects were asked to list their greatest fears. The top fears listed were public speaking; speaking up in a meeting or class; meeting new people; talking to people in authority; important examinations or interview; going to parties; and talking with strangers. Clearly, communicating publicly is anxiety-inducing for many. Yet in an increasingly competitive world, public speaking is becoming more and more vital to success. This course will tackle these fears head-on by instructing students how to organically build speeches, presentations, and public comments. The emphasis will be on maximizing students' personal voice and pairing that with time-honored techniques used by the finest orators. Gaining confidence and skill as a public speaker comes only through meticulous preparation and rehearsal. There will be readings, lectures, and discussion; but the bulk of a student's time will be spent preparing, delivering, and evaluating speeches and presentations. By the end of this course, students will be able to speak to a wide variety of audiences, from a small classroom to a large convention gathering. Along the way, they will bolster their writing skills, become more focused on editing their speeches for time and clarity, and learn how to make their presentation skills more engaging, even for "dense" topics.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

MPSC 7310 Manufacturing Quality Mgmt 3 Credits

This course provides a deep dive into the principles, tools, and strategies used in modern manufacturing planning and quality management. Students will explore how organizations design efficient production systems, manage resources, and ensure product quality throughout the manufacturing lifecycle. Topics include production planning, inventory control, lean manufacturing, Six Sigma, statistical process control, and quality assurance systems. Through case studies, simulations, and hands-on assignments, students will gain practical skills to optimize manufacturing operations and uphold quality standards in competitive global markets. By the end of the course, students will be equipped to contribute to manufacturing excellence through strategic planning and rigorous quality management practices.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to students with a major in Supply Chain Management, Supply Chain Management, Supply Chain Management or Supply Chain Management.

Enrollment limited to students in the School of Continuing Studies department.

MPSC 7350 Business Comms 3 Credits

Successful communication skills have become a critical management tool to thrive and survive in today's increasingly complex and fast-moving business climate. This hands-on, practical course teaches students to analyze, develop, and effectively communicate via all forms of business writing, presenting, visual storytelling, leadership, client management, and negotiating. This course covers the challenges of communicating across global organizations as well as the role that listening and emotional intelligence play in creating effective communication strategies.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

MPSC 7755 Negotiations 1.5 Credits

Effective negotiation is a key skill in supply chain management, impacting decisions such as order quantity, quality, service levels, total cost of ownership, and on-time delivery. Students will learn techniques and methods to prepare for negotiations and develop relationship management skills that improve their negotiation outcomes. Concepts such as developing a plan for negotiations, defining roles, developing high gain and high value questions, and demonstrating empathy and listening skills will be covered. Students will have the opportunity to practice via simulations and role play exercises.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

MPSC 7760 High-Stakes Communications 3 Credits

The ability to communicate well is essential in both professional and personal situations. Communication can rise to the level of high-stakes when the process is difficult or tense, the outcome is critical, and/or the possibility of miscommunication is high. This course introduces students to multiple types of high-stakes communications in business and dives deep into two specific types of high-stakes communications: 1) negotiations and 2) managing across different cultures. To help prepare for these two high-stakes communication situations, students will learn practical as well as theoretical tools, methodologies, and approaches.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to students with a major in Supply Chain Management, Supply Chain Management, Supply Chain Management or Supply Chain Management.

Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.

MPSC 7765 Leading Cross Cultural Teams 1.5 Credits

This course focuses on practical as well as theoretical tools, methodologies, and approaches that students will use throughout their supply chain career. Leadership, organizational management, team diversity and cross-cultural communications topics will be covered in order to help students develop their management and teamwork skills.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

MPSC 7800 Distrib Strat Logistics Mgt 3 Credits

This course introduces the various options for logistics management (1PL, 2PL, 3PL, etc.) and outlines the pros (including access to a global warehouse network, ability to focus company resources on core competencies, and shipping and risk mitigation) and cons (including cost and loss of control) of various distribution strategies.

Students learn about methodologies for optimization, managing logistics, transportation regulations that impact logistics, types of logistics software, and methods to select distribution partners and network configuration.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

MPSC 7820 Humanitarian Logistics 3 Credits

This course examines the supply chain challenges and strategies that are inherent in humanitarian relief efforts. Areas covered include both surge efforts (e.g., emergency and disaster response) as well as ongoing efforts (e.g., international relief and development projects). Students also examine the role and management of factors such as governments, NGOs, beneficiaries, infrastructure, donations, temporary structures, and country-specific conditions. The course demonstrates the importance of coordinating communications and efforts amongst stakeholders for maximum effectiveness.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.

MPSC 7850 Global Supply Chain Management 3 Credits

This course introduces students to the rules governing international trade and to global trade considerations. Topics include International Commercial Terms or Incoterms, frameworks for international expansion, regulatory and country reporting requirements, analysis of offshoring and outsourcing, and the evaluation of trade barriers and risks.

Level: Graduate, Undergraduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

MPSC 7860 Collab for Sustainable Future 3 Credits

In this cross-functional course, students explore the challenges, opportunities, requirements, and approaches to achieving sustainable and circular outcomes through collaborating with other disciplines. Students will gain the fluency to communicate sustainability terms and principles to a broad range of stakeholders. Utilizing a project in their field of study, they will assess opportunities to increase sustainability and circulatory while discerning the necessity and value of cross-industry and cross-functional efforts.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment limited to students in the School of Continuing Studies college.

MPSC 7950 Supply Chain Internship 3 Credits

The Supply Chain Internship course provides students with an experience that links classroom learning with knowledge gained through an applied work setting. In addition to direct participation in a company, non-profit or governmental organization, students will complete career-focused assignments, a reflection, and a career development plan. Through these activities, students gain an understanding of the internship site's mission, stakeholders, and culture as well as how to positively contribute to an organization's supply chain activities. Students will obtain their own internships and gain approval prior to signing up for the course.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

MPSC 7951 MPS-SCM Internship 1 1 Credit

This course is designed to help students solidify their career as an industry professional. This course is also meant as a way to help support students during their internship experience. Students are expected to check in monthly and as assignments are due with the instructor about their experience so that the instructor can give guidance regarding the internship and working within a professional organization.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to students with a program in Supply Chain Management, Supply Chain Management, Supply Chain Management or Supply Chain Management.

Enrollment is limited to Graduate level students.

MPSC 7952 MPSC Internship II 1 Credit

Students may take this 1-credit course alongside an independently acquired internship to reflect on how their experience relates to program knowledge and skills. Deliverables include regular writing assignments in which students discuss how program curriculum and methodologies inform their approach to internship responsibilities. Students are expected to complete a minimum of 50 hours of work (total) for the internship organization. NOTE: Enrollment requires program permission. Students may take this class only after taking Internship I 7951. This 1-credit course does not satisfy an elective requirement alone; however, students may complete (3) internships along with all (3) internship classes (Internship I 7951, Internship II 7952, and Internship III 7953) to cumulatively fulfill an elective.

Level: Graduate

Prerequisites: MPSC 7951

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.

MPSC 7953 MPSC Internship III 1 Credit

Students may take this 1-credit course alongside an independently acquired internship to reflect on how their experience relates to program knowledge and skills. Deliverables include regular writing assignments in which students discuss how program curriculum and methodologies inform their approach to internship responsibilities. Students are expected to complete a minimum of 50 hours of work (total) for the internship organization. NOTE: Enrollment requires program permission. Students may take this class only after taking Internship I 7951 and Internship II 7952. This 1-credit course does not satisfy an elective requirement alone; however, students may complete (3) internships along with all (3) internship classes (Internship I 7951, Internship II 7952, and Internship III 7953) to cumulatively fulfill an elective requirement.

Level: Graduate

Prerequisites: MPSC 7951 and MPSC 7952

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.

Enrollment limited to students in the School of Continuing Studies college.

MPSC 7990 Capstone 3 Credits

This course allows students to use the tools, techniques, and knowledge they have learned throughout the program to solve a business problem or improve a process within their organization or as a consulting project for a real-world client. Students will work closely with their faculty advisor to determine an appropriate topic and scope for their capstone project.

Level: Graduate

Grading: Main Campus (UGrad, Grad)

Course registration restrictions:

Enrollment is limited to Graduate level students.