Product Lifecycle & Supply Chain Management

Program Overview:
UT Dallas’ Naveen Jindal School of Management is one of the few institutions in the world offering a graduate program in Product Lifecycle & Supply Chain Management.

The first phase of the program, called the Supply Chain Core provides comprehensive training in Product Lifecycle and Supply Chain Management, combining theory and practice. Students are required to integrate classroom learning with work projects. A Graduate Certificate is earned after completing 15 credit hours in 12 months.

In the next phase, after completing the Supply Chain Core, students may elect to continue on for either a Master of Science in Supply Chain Management or Master of Business Administration degree. The degree programs are 24-28 months long (including the graduate certificate).

Program Highlights:
- Integrates theory & practice; practical approach to learning with potential immediate benefits to employers
- Cross functional program; focuses on product inception to retirement, end to end supply chain and continuous improvement
- Convenient blended schedule for working professionals; classes on Friday & Saturday, all day, once a month and weekly online modules. There will be additional Saturdays in some semesters
- Exceptional faculty drawn from industry and academia
- Context first with flexibility to achieve three levels of credentials
  - Graduate Certificate in Product Lifecycle and Supply Chain Management.
  - Master of Science in Supply Chain Management
  - MBA with emphasis in Product Lifecycle and Supply Chain Management.
- GMAT not required for working professionals
- Program starts every fall

Target Audience:
A typical student is an expert in one or more functional areas such as engineering, manufacturing, product development, procurement, distribution, warehousing, logistics, information technology or consulting and aspires to become a product manager, operations manager, general manager, business partner, and is interested in gaining a cross functional knowledge and managing improvement projects across multiple functions and extended global enterprises.
The Supply Chain Core and Business Core together complete the requirements for a Master of Science in Supply Chain Management. Students may waive the MS degree and complete an additional 15 credit hours (MBA Core) to earn a Master of Business Administration degree. If the MS degree is awarded, a minimum additional 27 credit hours are required for the MBA Degree. Tuition does not include books.

Curriculum Overview

Graduate Certificate in Product Lifecycle & Supply Chain Management
(Supply Chain Core 15 Credit Hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>OPRE 6366*</td>
<td>Global Supply Chain Management</td>
<td>3</td>
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<tr>
<td>OPRE 6370*</td>
<td>Global Logistics and Transportation</td>
<td>3</td>
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<tr>
<td>OPRE 6371</td>
<td>Purchasing, Sourcing and Contract Management</td>
<td>3</td>
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<tr>
<td>OPRE 6379</td>
<td>Product Lifecycle Management</td>
<td>3</td>
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<tr>
<td>OPRE 6364</td>
<td>Quality Control (Lean Six Sigma)</td>
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MS in Supply Chain Management
(Business Core 23 Credit Hours)

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<tr>
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<tbody>
<tr>
<td>OB 6301</td>
<td>Organizational Behavior</td>
<td>3</td>
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<tr>
<td>OPRE 6301</td>
<td>Statistics and Data Analysis</td>
<td>3</td>
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<tr>
<td>OPRE 6302</td>
<td>Operations Management</td>
<td>3</td>
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<tr>
<td>FIN 6301</td>
<td>Financial Management</td>
<td>3</td>
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<tr>
<td>ACCT 6301</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
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<tr>
<td>ACCT 6202</td>
<td>Introduction to Managerial Accounting</td>
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<tr>
<td>OPRE 6369</td>
<td>Supply Chain Software</td>
<td>3</td>
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<tr>
<td>IMS 6365</td>
<td>Cross-Culture Communication and Management</td>
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Master of Business Administration
(MBA Core 15 Credit Hours)

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<tr>
<th>Course Code</th>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td>OB 6346</td>
<td>Leading Organizational Change</td>
<td>3</td>
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<tr>
<td>MECO 6303</td>
<td>Business Economics</td>
<td>3</td>
</tr>
<tr>
<td>MIS 6313</td>
<td>Managing Information Technology in the Information Age</td>
<td>3</td>
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<tr>
<td>BPS 6310</td>
<td>Strategic Management</td>
<td>3</td>
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<tr>
<td>MKT 6301</td>
<td>Marketing Management</td>
<td>3</td>
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*OPRE 6366 and OPRE 6370 include a prerequisite of Statistics and Operations Management. These must be completed prior to enrollment.
Graduate Certificate in Product Lifecycle & Supply Chain Management Core Course Descriptions

The following is a brief summary of content for each course in the Supply Chain Core (Graduate Certificate in Product Lifecycle & Supply Chain Management*):

- **OPRE 6366: Global Supply Chain Management (3 credit hours)**
  Key Issues associated with the design and management of industrial supply chains. The efficient integration of suppliers, factories, warehouses, and stores so that products are distributed to customers in the right quantity and at the right time.

- **OPRE 6370: Global Logistics and Transportation (3 credit hours)**
  This course focuses on the design and analysis of global logistics, transportation and supply chain systems including the components such as suppliers, warehouse, packaging and material handling, customers, production, inventory, orders, transportation, and information systems. The course also discusses the interactions between these components; models and techniques for the analysis of logistics systems as well as the strategic financial outcomes influenced by the logistics decisions.

- **OPRE 6371: Purchasing, Sourcing and Contract Management (3 credit hours)**
  Basic concepts and processes in purchasing and sourcing management are introduced in this course. It teaches global sourcing techniques and the application of various management tools and quality tools in purchasing. Focus is on the proactive and planned analysis of supply markets and the selection of suppliers, with the objective of delivering solutions to meet pre-determined and agreed organizational needs.

- **OPRE 6379: Product Lifecycle Management (3 credit hours)**
  This course provides a management approach to new product development, product lifecycle management and its impact on supply chain management. Topics include the management of product portfolio transitions, resources, schema and modeling for bills of materials, change management, and product cost management.

- **OPRE 6364: Quality Control (Lean Six Sigma) (3 credit hours)**
  This course discusses the Lean and Six Sigma quality framework as it applies to manufacturing, service operations, re-engineering the design of products and processes to reduce waste and variability, use of Define-Measure-Improve-Control (DMAIC) methodology, and application of Lean for continuous improvement.

*OPRE 6366 and OPRE 6370 include a prerequisite of Statistics and Operations Management. These must be completed prior to enrollment.
MS in Supply Chain Management Business Core Course Descriptions
The following is a brief summary of content for each course in the Business Core (MS in Supply Chain Management):

- **OB 6301: Organizational Behavior (3 credit hours)**
  The study of human behavior in organizations. Emphasizes theoretical concepts and practical methods for understanding, analyzing, and predicting individual, group, and organizational behavior. Topics include work motivation, group dynamics, decision making, conflict and negotiation, leadership, power, and organizational culture. Ethical and international considerations are also addressed.

- **OPRE 6301-Statistics and Data Analysis (3 credit hours)**
  Introduction to statistical and probabilistic methods and theory applicable to situations faced by managers. Topics include: data presentation and summarization, regression analysis, fundamental probability theory and random variables, introductory decision analysis, estimation, confidence intervals, hypothesis testing, and One-Way ANOVA.

- **OPRE 6302: Operations Management (3 credit hours)**
  Operations Management integrates all of the activities and processes that are necessary to provide products and services. This course overviews methods and models that help managers make better operating decisions over time. How these methods will allow firms to operate both manufacturing and service facilities in order to compete in a global environment will also be discussed.

- **FIN 6301: Financial Management (3 credit hours)**
  Theoretical and procedural considerations in the administration of the finance function in the individual business firm; planning, fundraising, controlling of firm finances; working capital management, capital budgeting and cost of capital.

- **ACCT 6301: Introduction to Financial Accounting (3 credit hours)**
  This course focuses on the development, analysis and use of the information contained in financial statements. It discusses what the financial statements contain, what assumptions and concepts accountants use to prepare them, and why they use those assumptions and concepts.

- **ACCT 6202: Introduction to Managerial Accounting (2 credit hours)**
  This course presents a detailed study of how managerial accounting information supports the operational and strategic needs of the enterprise and how managers use accounting information for decision-making, learning, planning and controlling activities within organizations.

- **OPRE 6369: Supply Chain Software (3 credit hours)**
  This course teaches planning and execution of supply chains with software such as SAP's ERP (R3) and Advanced Planning and Optimization (APO). The focus is on the supply planning function of supply chain management. Topics include: fundamentals of ERP and SAP, master and transaction data, MRP, forecasting, supply and demand matching, and integration of ERP and APO modules. This course is intended for graduate students with interests in software-based supply chain management. No SAP experience is required.

- **IMS 6365: Cross-Culture Communication and Management (3 credit hours)**
  This course focuses on understanding national culture and cultural issues in international business. It emphasizes the importance of managing cultural differences to enhance communication, negotiation, leadership, and group dynamics in an international work environment. Further, the course describes methods to develop effective selection and training programs for international assignments.
MBA Core Course Descriptions
The following is a brief summary of content for each course in the MBA Core (MBA with a Concentration in Product Lifecycle and Supply Chain Management):

- **OB 6346: Leading Organizational Change (3 credit hours)**
  This course explores how real change happens in organizations including setting a business strategy, using change models, and showing leadership throughout the change process. Topics include the linkage of business strategy and organizational change, driving and resisting forces to change, frameworks helpful in guiding the change process, and the types of leadership most critical at different stages of the change process.

- **MIS 6313-Managing Information Technology in the Information Age (3 credit hours)**
  Necessary background to understand the role of information technology and Management Information Systems in today's business environment. Topics include: strategic role of information, organization of information, information decision making requirements, telecommunications and networking, managing information resources, cloud computing distributed processing, and current information systems/technology issues. May not be used to fulfill degree requirements in MS Information Technology and Management.

- **MECO 6303: Business Economics (3 credit hours)**
  Foundations of the economic analysis of business problems, with special emphasis on the function and determination of market prices in production and consumption. Supply and demand, price theory, production theory, trade theory with reference to the global economy, the effects of tax and other policies in the economy, and essential elements of the banking system and monetary policy are addressed.

- **MKT 6301: Marketing Management (3 credit hours)**
  Overview of marketing management methods, principles and concepts including product, pricing, promotion and distribution decisions as well as segmentation, targeting and positioning.

- **BPS 6310: Strategic Management (3 credit hours)**
  The course examines a variety of issues including environmental, competitor, and stakeholder analysis; strategy formulation; and strategy implementation and control. The central role of ethics and corporate governance as well as global issues will be addressed.
Financial Aid Information

Federal Student Loans are available for a student who is a US citizen or eligible noncitizen; is registered with Selective Service (males) or prove exemption; and, is admitted as a regular degree-seeking graduate student. You must submit the Free Application for Federal Student Aid (FAFSA) to apply electronically @ www.fafsa.gov. You must first apply for a Federal Student Aid identification number (FSA ID) @ www.fsaid.ed.gov. The FSA ID is needed to sign your FAFSA electronically, correct any information after you get your FAFSA results, and access your financial aid history online. The UTD federal school code is 009741.

Private Educational Loans are available for a student who does not meet the Federal Student Loan requirements (including certificate only seeking students) or who prefers to borrow from a private educational lender. There are several sources of private-based long term educational loans that are issued based on the credit-worthiness of the borrower. More information is available via the UTD Financial Aid Office website @ http://www.utdallas.edu/finaid/aid-programs/student-loans/private-loans/, including a list of some lenders.

UTD CONTACT:
More information is available by contacting the Executive Education Financial Services Manager, Paula Baxter at paula.baxter@utdallas.edu or 972-883-4114.

HELPFUL WEBSITES:
www.fafsa.gov
www.studentaid.ed.gov

The program does not award scholarships.