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 9-12 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. Both degree options include a mandatory two-week international study trip. The degree programs are 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.
- 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
- Graduate certificate program offered in September each year

Target Audience:
A typical student in 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 manage improvement projects across multiple functions and extended global enterprises.
There are three levels of recognition in this course:

<table>
<thead>
<tr>
<th>Level</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Certificate</td>
<td>15 credit hours</td>
</tr>
<tr>
<td>Master of Science in Supply Chain Management</td>
<td>23 credit hours (plus the previous 15 credit hours) 38 credit hours in total</td>
</tr>
<tr>
<td>Master of Business Administration</td>
<td>16 Credit Hours (plus the previous 38 credit hours) 54 credit hours in total</td>
</tr>
</tbody>
</table>

**Schedule**
- All day, Friday and Saturday
- 8 hours a day, Once a month
- Remaining coursework delivered online

**Duration**
- Certificate: 9-12 months
- MS in Supply Chain Management: 24 months
- MBA: 28 months

**Infrastructure**
- Internet access in every classroom
- Wireless network access throughout campus
- Conference and break out rooms
- Technical support
- Teleconferencing and web-conferencing facilities to work in teams
- Online courseware tool is available to access course materials from any location

**Classes Begin**
- September or January
Program Cost

These costs below cover tuition and most expenses associated with the International Study Trip.

<table>
<thead>
<tr>
<th>Degree Earned</th>
<th>Graduate Certificate in Product Lifecycle and Supply Chain Management (15 credit hours)</th>
<th>MS in Supply Chain Management* (15+23=38 credit hours)</th>
<th>MBA* (15+23+16=54 credit hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost</td>
<td>$13,500</td>
<td>Business Core Cost: $24,500 (includes most expenses for the International Study Trip**)</td>
<td>MBA Core Cost: $14,400</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Cost-Supply Chain Core and Business Core: $38,000</td>
<td>Total Cost-Supply Chain Core, Business Core and MBA Core: $52,400</td>
</tr>
</tbody>
</table>

*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 16 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.

**Airfare and some meals are not included in tuition costs for the international study trip.
## Curriculum Overview

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

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

### MS in Supply Chain Management
**(Business Core 23 Credit Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OB 6301:</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>OPRE 6301:</td>
<td>Statistics and Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>OPRE 6302:</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>FIN 6301:</td>
<td>Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 6301:</td>
<td>Introduction to Financial Accounting</td>
<td>2</td>
</tr>
<tr>
<td>ACCT 6202:</td>
<td>Introduction to Managerial Accounting</td>
<td>2</td>
</tr>
<tr>
<td>OPRE 6367:</td>
<td>Capstone Projects in Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(International Study Trip)</td>
<td></td>
</tr>
<tr>
<td>OPRE 6368:</td>
<td>Industrial Applications in Supply Chains</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(International Study Trip)</td>
<td></td>
</tr>
</tbody>
</table>

### Master of Business Administration
**(MBA Core 16 Credit Hours)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPRE 6342:</td>
<td>Special Topics in Product Lifecycle and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Supply Chain Management</td>
<td></td>
</tr>
<tr>
<td>MECO 6303:</td>
<td>Business Economics</td>
<td>3</td>
</tr>
<tr>
<td>MIS 6204:</td>
<td>Information Technology for Management</td>
<td>2</td>
</tr>
<tr>
<td>BPS 6310:</td>
<td>Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>IMS 6204:</td>
<td>Global Business</td>
<td>2</td>
</tr>
<tr>
<td>MKT 6301:</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
</tbody>
</table>
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 study of logistics systems, with emphasis on the design and analysis of transportation and supply chain systems, including the components of transportation and supply chain systems, such as suppliers, warehouse, material handling, customers, production, inventory, orders, transportation, and information systems; the interactions between these components; models and techniques for the analysis of logistics systems.

- **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 products development, product lifecycle management & its impact on supply chain management. PLM Physical Flow- new product development, conventional versus Toyota development process, service and software life cycles. PLM information flow- requirements management, portfolio management, resource management, transition management. PLM Digital Flow- schema and modeling, product record, structure, bill of material, change management, engineering collaboration, product cost management, quality management, compliance and governance & enterprise system integration. Effectively managing product development project management & product development project trends.

- **OPRE 6364: Quality Control (Lean Six Sigma) (3 credit hours)**
  Concepts and theory of quality control in manufacturing and service operations. Analysis of product design, process capability studies, statistical process control, and acceptance sampling.
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):

- **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.

- **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 6367: Capstone Projects in Supply Chain Management (International Study Trip, 3 credit hours)**
  Capstone projects are sponsored by local industries and provide the students an opportunity to apply the skills and knowledge gained to solve real world challenging problems in the area of supply chain management. Students work in a team environment, interact with industry leaders and gain some industry specific knowledge.

- **OPRE 6368: Industrial Applications in Supply Chains (International Study Trip, 3 credit hours)**
  The course discusses and reviews major Supply Chain challenges and relevant decision making tools used in the industry. The course proceeds with the analysis of real-life cases during which the students obtain industry specific knowledge. Some of the industries of interest are semiconductors, telecommunications, high-tech electronics, consumer goods and retail.
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):

- **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.

- **MIS 6204-Information Technology for Management (2 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.

- **BPS 6310: Strategic Management (3 credit hours)**
  An examination of the management functions involved in strategic planning and programming.

- **IMS 6204: Global Business (3 credit hours)**
  Introduction to the theory of international trade and payments. Analysis of the economic environment in which international business is conducted.

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

- **OPRE 6342: Special Topics in Product Lifecycle and Supply Chain Management (3 credit hours)**
  This course introduces selected topics in product lifecycle and supply chain management. Students will be exposed to technology solutions, value management and business simulations to learn the interactions and challenges in decision making in a real world supply chain environment.
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.