Supply Chain Management Program (http://catalog.mit.edu/interdisciplinary/graduate-programs/supply-chain-management)

Master of Engineering in Supply Chain Management (Blended Program)

The Master of Engineering in Supply Chain Management degree is an intensive, five-month blended program requiring 90 units of graduate subjects. The MEng degree is only available to students who have successfully completed the MITx MicroMasters credential in Supply Chain Management. Students receive 42 units of advance standing credit for completion of the MicroMasters Credential, complete at least 36 units of required and elective subjects, and complete a 12-unit thesis. The subject requirements for this program are described below.

Subject Requirements

Students receive advanced standing credit for completion of the MicroMasters Credential, which constitutes the first semester of the program.

SCM.500 Studies in Supply Chain Management 42

Students complete the following subjects in residence, constituting the second semester of the program.

IAP Required Subjects

SCM.254 Applied Programming and Data Analysis in Python 3
SCM.258 Written Communication Topics for Supply Chain Management 1
SCM.262 Leading Global Teams 3

Spring Required Subjects

SCM.263 Advanced Writing Workshop for SCM 3
SCM.281 Supply Chain Public Speaking Workshop 1
SCM.295 Supply Chain Study Trek 1
SCM.C51 Machine Learning Applications for Supply Chain Management 6
6.C51 Modeling with Machine Learning: from Algorithms to Applications 6

Finance Choices

Select one of the following: 3

SCM.253 Case Studies in Supply Chain Financial Analysis
15.011 Economic Analysis for Business Decisions
15.401 Managerial Finance
15.521 Accounting Information for Decision Makers
15.535 Business Analysis Using Financial Statements

Thesis Requirement

A master’s thesis, presentation, and executive summary of the thesis are required.

SCM.THG Graduate Thesis 12

Required Electives

From the list of electives, select subjects in each of the following categories:

SCM Electives 6
Analysis Electives 3

Total Units 90

Electives

The subjects listed below are recommended. Students may select other subjects with the approval of the advisor.

SCM Electives

SCM.261 Case Studies in Logistics and Supply Chain Management 6
SCM.266 Freight Transportation 6
SCM.283 Humanitarian Logistics 6
SCM.284 Humanitarian Logistics Project 6
SCM.289 E-Commerce and Omnichannel Fulfillment Strategies 6
SCM.290 Sustainable Supply Chain Management 6
SCM.291 Procurement Fundamentals 6
SCM.293[J] Urban Last-Mile Logistics 6
SCM.294 Digital Supply Chain Transformation 6

Analysis Electives

1.266 Supply Chain and Demand Analytics 6
15.071 The Analytics Edge 12
15.093[J] Optimization Methods 12
15.774 The Analytics of Operations Management 12
15.871 Introduction to System Dynamics 6
15.872 System Dynamics II 6
15.873 System Dynamics for Business and Policy 9
IDS.145[J] Data Mining: Finding the Models and Predictions that Create Value 6
IDS.147[J] Statistical Machine Learning and Data Science 12
IDS.305[J] Business and Operations Analytics 6
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IDS.330[J]</td>
<td>Real Options for Product and Systems Design</td>
<td>6</td>
</tr>
<tr>
<td>IDS.333[J]</td>
<td>Risk and Decision Analysis</td>
<td>6</td>
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<tr>
<td>IDS.338[J]</td>
<td>Multidisciplinary Design Optimization</td>
<td>12</td>
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<td>15.025</td>
<td>Game Theory for Strategic Advantage</td>
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<td>15.286</td>
<td>Communicating with Data</td>
<td>6</td>
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<td>15.386</td>
<td>Leading in Ambiguity: Steering Through Strategic Inflection Points</td>
<td>6</td>
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<td>15.390</td>
<td>New Enterprises</td>
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<tr>
<td>15.762[J]</td>
<td>Supply Chain: Inventory Analytics</td>
<td>6</td>
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<td>15.763[J]</td>
<td>Supply Chain: Capacity Analytics</td>
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<td>15.768</td>
<td>Management of Services: Concepts, Design, and Delivery</td>
<td>9</td>
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<tr>
<td>15.769</td>
<td>Operations Strategy</td>
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<td>15.777</td>
<td>Healthcare Lab: Introduction to Healthcare Delivery in the United States</td>
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<td>Operations Laboratory</td>
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<td>Competitive Strategy</td>
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<td>15.904</td>
<td>Strategy and the CEO</td>
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<tr>
<td>15.915</td>
<td>Laboratory for Sustainable Business</td>
<td>12</td>
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<tr>
<td>SCM.287[J]</td>
<td>Global Aging &amp; the Built Environment</td>
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