Master of Applied Science in Supply Chain Management (Blended Program)

The Master of Applied Science in Supply Chain Management degree is an intensive, five-month blended program requiring 90 units of graduate subjects. The MASc 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 39 units of required and elective subjects, and complete a 9-unit capstone project. 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.258 Written Communication Topics for Supply Chain Management 1
SCM.262 Leading Global Teams 3
SCM.254 Analytical Methods for Supply Chain Management II 3

Spring Required Subjects

SCM.263 Advanced Writing Workshop for SCM 3
SCM.281 Supply Chain Public Speaking Workshop 1
SCM.256 Data Science and Machine Learning for Supply Chain Management 12
or SCM.C51 & 6.C51
SCM.256 Machine Learning Applications for Supply Chain Management and Modeling with Machine Learning: from Algorithms to Applications

Capstone Requirement

A capstone report, presentation, and executive summary of the project are required.

SCM.800 Capstone Project in Supply Chain Management 9

Required Electives

Select 1 elective in each of the following categories, plus additional electives to meet unit requirement:

Finance Electives

SCM.251 Supply Chain Financial Analysis 9
SCM.253 Case Studies in Supply Chain Financial Analysis 6
15.011 Economic Analysis for Business Decisions 9
15.401 Managerial Finance 9
15.521 Accounting Information for Decision Makers 6
15.535 Business Analysis Using Financial Statements 9

Supply Chain Electives

SCM.261[J] Case Studies in Logistics and Supply Chain Management 6
SCM.265[J] Global 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

Electives

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

Finance Electives

SCM.251 Supply Chain Financial Analysis 9
SCM.253 Case Studies in Supply Chain Financial Analysis 6
15.011 Economic Analysis for Business Decisions 9
15.401 Managerial Finance 9
15.521 Accounting Information for Decision Makers 6
15.535 Business Analysis Using Financial Statements 9

Supply Chain Electives

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SCM.266 Freight Transportation 6
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SCM.290 Sustainable Supply Chain Management 6
SCM.291 Procurement Fundamentals 6
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Total Units 90
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>IDS.305[J]</td>
<td>Business and Operations Analytics</td>
<td>6</td>
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<tr>
<td>IDS.330[J]</td>
<td>Real Options for Product and Systems Design</td>
<td>6</td>
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<tr>
<td>IDS.333[J]</td>
<td>Risk and Decision Analysis</td>
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<tr>
<td>IDS.338[J]</td>
<td>Multidisciplinary Design Optimization</td>
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**Management Electives**

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<tbody>
<tr>
<td>SCM.287[J]</td>
<td>Global Aging &amp; the Built Environment</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>
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<td>15.386</td>
<td>Leading in Ambiguity: Steering Through Strategic Inflection Points</td>
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<td>15.390</td>
<td>New Enterprises</td>
<td>12</td>
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<td>15.762[J]</td>
<td>Supply Chain: Inventory Analytics</td>
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<tr>
<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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<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>15.784</td>
<td>Operations Laboratory</td>
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<td>15.900</td>
<td>Competitive Strategy</td>
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<td>15.904</td>
<td>Strategy and the CEO</td>
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<td>15.915</td>
<td>Business Strategies for a Sustainable Future</td>
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