MASTER'S DEGREES IN SUPPLY CHAIN MANAGEMENT

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

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 Applied Programming and Data Analysis in Python 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.256 Data Science and Machine Learning for Supply Chain Management 12
  or SCM.C51 & 6.C51 Machine Learning Applications for Supply Chain Management and Modeling with Machine Learning: from Algorithms to Applications

**Finance Choices**

Select one of the following: 3-9

- SCM.253 Case Studies in Supply Chain Financial Analysis
- 15.011 Economic Analysis for Business Decisions
- 15.401 Managerial Finance

**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**

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

- SCM Electives 6
- Analysis Electives 6

**Total Units** 90-96

**Electives**

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

**SCM Electives**

- SCM.261[J] 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**

- 1.200[J] Transportation: Foundations and Methods 12
- 1.266 Supply Chain and Demand Analytics 6
- 15.071 The Analytics Edge 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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDS.147[J]</td>
<td>Statistical Machine Learning and Data Science</td>
<td>12</td>
</tr>
<tr>
<td>IDS.305[J]</td>
<td>Business and Operations Analytics</td>
<td>6</td>
</tr>
<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>
</tr>
<tr>
<td>IDS.338[J]</td>
<td>Multidisciplinary Design Optimization</td>
<td>12</td>
</tr>
</tbody>
</table>

**Management Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.025</td>
<td>Game Theory for Strategic Advantage</td>
<td>9</td>
</tr>
<tr>
<td>15.286</td>
<td>Communicating with Data</td>
<td>6</td>
</tr>
<tr>
<td>15.386</td>
<td>Leading in Ambiguity: Steering Through Strategic Inflection Points</td>
<td>6</td>
</tr>
<tr>
<td>15.390</td>
<td>New Enterprises</td>
<td>12</td>
</tr>
<tr>
<td>15.762[J]</td>
<td>Supply Chain: Inventory Analytics</td>
<td>6</td>
</tr>
<tr>
<td>15.763[J]</td>
<td>Supply Chain: Capacity Analytics</td>
<td>6</td>
</tr>
<tr>
<td>15.768</td>
<td>Management of Services: Concepts, Design, and Delivery</td>
<td>9</td>
</tr>
<tr>
<td>15.769</td>
<td>Operations Strategy</td>
<td>9</td>
</tr>
<tr>
<td>15.777</td>
<td>Healthcare Lab: Introduction to Healthcare Delivery in the United States</td>
<td>15</td>
</tr>
<tr>
<td>15.784</td>
<td>Operations Laboratory</td>
<td>9</td>
</tr>
<tr>
<td>15.900</td>
<td>Competitive Strategy</td>
<td>9</td>
</tr>
<tr>
<td>15.904</td>
<td>Strategy and the CEO</td>
<td>6</td>
</tr>
<tr>
<td>15.915</td>
<td>Laboratory for Sustainable Business</td>
<td>12</td>
</tr>
<tr>
<td>SCM.287[J]</td>
<td>Global Aging &amp; the Built Environment</td>
<td>12</td>
</tr>
</tbody>
</table>