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 (Residential Program)

The Master of Applied Science in Supply Chain Management degree is an intensive, 10-month residential program requiring 90 units of graduate subjects. Students complete at least 81 units of required and elective subjects and complete a 9-unit capstone project. The subject requirements for this program are described below.

Subject Requirements [1]

Fall Required Subjects		
SCM.250	Analytical Methods for Supply Chain Management	6
SCM.259	Business Writing for Supply Chain Management	3
SCM.260[J]	Logistics Systems	12
SCM.264	Databases and Data Analysis for Supply Chain Management	6
SCM.280	Supply Chain Communications Workshop	1
SCM.800	Capstone Project in Supply Chain Management	3
IAP Required Subjects		
SCM.262	Leading Global Teams	4
SCM.282	Supply Chain Leadership Workshop	3
SCM.254	Introduction to Programming and Data Analysis in Python	3
or SCM.272	Supply Chain Specialty Workshop	
Spring Required Subjects		
SCM.263	Advanced Writing Workshop for SCM	3
SCM.268	Data Science for Supply Chain Management	6
SCM.270	Current Challenges in Supply Chain Management	3
SCM.281	Supply Chain Public Speaking Workshop	1
SCM.295	Supply Chain Study Trek	3
SCM.800	Capstone Project in Supply Chain Management	6
Finance Choices		
Select one of the following:		9
15.011	Economic Analysis for Business Decisions	
15.401	Managerial Finance	
15.521	Cost Analysis and Accounting for the Manager, Entrepreneur, and Investor	
SCM.251 & SCM.253	Supply Chain Financial Analysis and Case Studies in Supply Chain Financial Analysis	
Required Electives		
From the list of electives, select 6 units in each of the following categories:		
SCM Electives		6
Analysis Electives		6
Management Electives		6
Total Units		90

[1]   Students who have already successfully completed one of the required subjects at a graduate level elsewhere may petition to replace that subject with another elective.

Electives

The subjects listed below are recommended but other choices can be approved by the graduate advisor.

SCM Electives		
SCM.261[J]	Case Studies in Logistics and Supply Chain Management	9
SCM.265[J]	Global Supply Chain Management	6
SCM.266	Freight Transportation	6
SCM.267	Global Supply Chain Applications	3
SCM.283	Humanitarian Logistics	6
SCM.284	Humanitarian Logistics Project	12
SCM.290	Sustainable Supply Chain Management	6
Analysis Electives		
1.200[J]	Transportation Systems Analysis: Performance and Optimization	12
15.093[J]	Optimization Methods	12
15.764[J]	The Theory of Operations Management	12
15.774	The Analytics of Operations Management	12
15.871	Introduction to System Dynamics	6
15.872	System Dynamics II	6
IDS.145[J]	Data Mining: Finding the Models and Predictions that Create Value	6
IDS.147[J]	Statistical Learning and Data Mining	12
IDS.330	Real Options for Product and Systems Design	6
IDS.333	Risk and Decision Analysis	6
IDS.338[J]	Multidisciplinary System Design Optimization	12

Management Electives

15.762[J]	Supply Chain Planning	6
15.763[J]	Manufacturing System and Supply Chain Design	6
15.768	Management of Services: Concepts, Design, and Delivery	9
15.769	Operations Strategy	9
15.784	Operations Laboratory	9

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Master of Engineering in Supply Chain Management (Residential Program)

The Master of Engineering in Supply Chain Management degree is an intensive, 10-month residential program requiring 90 units of graduate subjects. Students complete at least 78 units of required and elective subjects, and complete a 12-unit thesis. The subject requirements for this program are described below.

Subject Requirements [1]

Fall Required Subjects		
SCM.250	Analytical Methods for Supply Chain Management	6
SCM.260[J]	Logistics Systems	12
SCM.264	Databases and Data Analysis for Supply Chain Management	6
SCM.280	Supply Chain Communications Workshop	1
SCM.THG	Graduate Thesis	3
IAP Required Subjects		
SCM.262	Leading Global Teams	4
SCM.282	Supply Chain Leadership Workshop	3
SCM.254	Introduction to Programming and Data Analysis in Python	3
or SCM.272	Supply Chain Specialty Workshop	
Spring Required Subjects		
SCM.263	Advanced Writing Workshop for SCM	3
SCM.268	Data Science for Supply Chain Management	6
SCM.270	Current Challenges in Supply Chain Management	3
SCM.281	Supply Chain Public Speaking Workshop	1
SCM.295	Supply Chain Study Trek	3
SCM.THG	Graduate Thesis	9
Finance Choices		
Select one of the following:		9
15.011	Economic Analysis for Business Decisions	
15.401	Managerial Finance	
15.521	Cost Analysis and Accounting for the Manager, Entrepreneur, and Investor	
SCM.251 & SCM.253	Supply Chain Financial Analysis and Case Studies in Supply Chain Financial Analysis	
Required Electives		

From the list of electives, select 6 units in each of the following categories:

SCM Electives	6
Analysis Electives	6
Management Electives	6
Total Units	90

[1] *Students who have already successfully completed one of the required subjects at a graduate level elsewhere may petition to replace that subject with another elective.*

Electives

The subjects listed below are recommended but other choices can be approved by the graduate advisor.

SCM Electives		
SCM.261[J]	Case Studies in Logistics and Supply Chain Management	9
SCM.265[J]	Global Supply Chain Management	6
SCM.266	Freight Transportation	6
SCM.267	Global Supply Chain Applications	3
SCM.283	Humanitarian Logistics	6
SCM.284	Humanitarian Logistics Project	12
SCM.290	Sustainable Supply Chain Management	6
Analysis Electives		
1.200[J]	Transportation Systems Analysis: Performance and Optimization	12
15.093[J]	Optimization Methods	12
15.764[J]	The Theory of Operations Management	12
15.774	The Analytics of Operations Management	12
15.871	Introduction to System Dynamics	6
15.872	System Dynamics II	6
IDS.145[J]	Data Mining: Finding the Models and Predictions that Create Value	6
IDS.147[J]	Statistical Learning and Data Mining	12
IDS.330	Real Options for Product and Systems Design	6
IDS.333	Risk and Decision Analysis	6
IDS.338[J]	Multidisciplinary System Design Optimization	12
Management Electives		
15.762[J]	Supply Chain Planning	6
15.763[J]	Manufacturing System and Supply Chain Design	6
15.768	Management of Services: Concepts, Design, and Delivery	9
15.769	Operations Strategy	9

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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.254	Introduction to Programming and Data Analysis in Python	3
or SCM.272	Supply Chain Specialty Workshop	
SCM.259	Business Writing for Supply Chain Management	3
SCM.262	Leading Global Teams	4
SCM.280	Supply Chain Communications Workshop	1
SCM.282	Supply Chain Leadership Workshop	3

Spring Required Subjects

SCM.253	Case Studies in Supply Chain Financial Analysis	3
SCM.263	Advanced Writing Workshop for SCM	3
SCM.270	Current Challenges in Supply Chain Management	3
SCM.281	Supply Chain Public Speaking Workshop	1
SCM.295	Supply Chain Study Trek	3

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

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	9
SCM.266	Freight Transportation	6
SCM.267	Global Supply Chain Applications	3
SCM.283	Humanitarian Logistics	6
SCM.284	Humanitarian Logistics Project	12
SCM.290	Sustainable Supply Chain Management	6

Analysis Electives

15.764[J]	The Theory of Operations Management	12
15.871	Introduction to System Dynamics	6
15.872	System Dynamics II	6
IDS.145[J]	Data Mining: Finding the Models and Predictions that Create Value	6
IDS.147[J]	Statistical Learning and Data Mining	12
IDS.330	Real Options for Product and Systems Design	6
IDS.338[J]	Multidisciplinary System Design Optimization	12

Management Electives

15.762[J]	Supply Chain Planning	6
15.763[J]	Manufacturing System and Supply Chain Design	6
15.768	Management of Services: Concepts, Design, and Delivery	9
15.769	Operations Strategy	9
15.784	Operations Laboratory	9

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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	Introduction to Programming and Data Analysis in Python	3
or SCM.272	Supply Chain Specialty Workshop	
SCM.259	Business Writing for Supply Chain Management	3
SCM.262	Leading Global Teams	4
SCM.280	Supply Chain Communications Workshop	1
SCM.282	Supply Chain Leadership Workshop	3
Spring Required Subjects		
SCM.253	Case Studies in Supply Chain Financial Analysis	3
SCM.263	Advanced Writing Workshop for SCM	3
SCM.270	Current Challenges in Supply Chain Management	3
SCM.281	Supply Chain Public Speaking Workshop	1
SCM.295	Supply Chain Study Trek	3
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[J]	Case Studies in Logistics and Supply Chain Management	9
SCM.266	Freight Transportation	6
SCM.267	Global Supply Chain Applications	3
SCM.283	Humanitarian Logistics	6
SCM.284	Humanitarian Logistics Project	12
SCM.290	Sustainable Supply Chain Management	6
Analysis Electives		
15.764[J]	The Theory of Operations Management	12
15.871	Introduction to System Dynamics	6
15.872	System Dynamics II	6
IDS.145[J]	Data Mining: Finding the Models and Predictions that Create Value	6
IDS.147[J]	Statistical Learning and Data Mining	12
IDS.330	Real Options for Product and Systems Design	6
IDS.338[J]	Multidisciplinary System Design Optimization	12
Management Electives		
15.762[J]	Supply Chain Planning	6
15.763[J]	Manufacturing System and Supply Chain Design	6
15.768	Management of Services: Concepts, Design, and Delivery	9
15.769	Operations Strategy	9
15.784	Operations Laboratory	9