MASTER OF SCIENCE IN TRANSPORTATION

Master of Science in Transportation Program Description
(http://catalog.mit.edu/interdisciplinary/graduate-programs/transportation)

Core Subjects
11.251 Frontier of Transportation Research 3
Select one of the following: 12
1.202 Demand Modeling
1.208 Resilient Networks
1.260[J] Logistics Systems
11.478 Behavioral Science, AI, and Urban Mobility

Computation/Analytics
Select one of the following: 12
6.3732[J] Statistics, Computation and Applications
6.7900 Machine Learning
6.7910[J] Statistical Learning Theory and Applications
6.C51 Modeling with Machine Learning: from Algorithms to Applications 1
15.071 The Analytics Edge
15.072 Advanced Analytics Edge

Policy, Technology, and Society Subjects 2, 3
Select one subject from the list below. 6-12
2.65[J] Sustainable Energy 12
2.810 Manufacturing Processes and Systems 12
6.7260 Network Science and Models 12
11.255 Negotiation and Dispute Resolution in the Public Sector 12
11.478 Behavioral Science, AI, and Urban Mobility 12
11.526[J] Comparative Land Use and Transportation Planning 12
11.540 Urban Transportation Planning and Policy 12
15.020 Economics of Energy, Innovation, and Sustainability 12
15.230 Public Policy and the Private Sector 9
15.655[J] Law, Technology, and Public Policy 12
16.422 Human Supervisory Control of Automated Systems 12
16.71[J] The Airline Industry 12
16.72 Air Traffic Control 12
16.89[J] Space Systems Engineering 12
MAS.552[J] City Science 12
MAS.750 Human-Robot Interaction 9
MAS.836 Sensor Technologies for Interactive Environments 12
MAS.859 Space Technology for the Development Leader 6
IDS.333[J] Risk and Decision Analysis 6
IDS.410 Modeling and Assessment for Policy 9
IDS.411 Concepts and Research in Technology and Policy 9
IDS.412[J] Science, Technology, and Public Policy 12
IDS.521[J] Energy Systems for Climate Change Mitigation 12
IDS.522 Mapping and Evaluating New Energy Technologies 12
IDS.526[J] Sustainability Science and Engineering 9
STS.487 Foundations of Information Policy 12

Transportation Subject Electives
Select a minimum of 24 units of transportation related electives in consultation with advisor. 24

Thesis
Students must complete a research-based thesis on a topic of their choice that has been approved by the thesis advisor. 24
1.THG Graduate Thesis 24

Total Units 93-99

2 Credit cannot be earned unless 6.C51 and 1.C51 are completed at the same time.
2 Special subjects offered by the Department of Urban Studies and Planning (Course 11) may satisfy this requirement if content satisfies MST criteria. Contact program office for available offerings.
3 Requests to waive this requirement based on prior coursework must be submitted in writing to the Transportation Education Committee (TEC) executive director.