

MASTER OF SCIENCE IN TRANSPORTATION

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

Core Subjects

1.200[J]	Transportation: Foundations and Methods	12
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^{2, 3}

Select one subject from the list below. 6-12

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.

1.THG	Graduate Thesis	24
-------	-----------------	----

Total Units 93-99

¹ 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.

Policy, Technology, and Society Subjects

2.65[J]	Sustainable Energy	12
2.810	Manufacturing Processes and Systems	12
6.7260	Network Science and Models	12
10.805[J]	Technology, Law, and the Working Environment	9
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
15.038[J]	Energy Economics and Policy	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
16.453[J]	Human Systems Engineering	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[J]	Space Technology for the Development Leader	6
IDS.333[J]	System Design and Management for a Changing World: Tools	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

MASTER OF SCIENCE IN TRANSPORTATION

STS.477[J]	Writing: Science, Technology, and Society	12
STS.487	Foundations of Information Policy	12