



Master in Urban Planning Transportation and Infrastructure Concentration 2020-2021

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Other Concentration Faculty: Diane Davis, Ann Forsyth

This area of concentration covers any form of infrastructure that is an important shaper of the built environment, particularly transportation, storm water, drinking water and sewage but also energy and telecommunications. Students are encouraged to take courses that examine infrastructure from a variety of perspectives, including:

1. Planning practice and policy
2. Analytic methods applied to infrastructure planning and operations
3. The physical design of infrastructure
4. The relationship between infrastructure and land use
5. Private infrastructure provision, regulation and finance
6. Specialized courses on modes of transportation or types of infrastructure

Please note that course offerings often change, and new courses may be offered while these recommended courses may not be offered each year, particularly in the spring semester. This memo is subject to change depending on the availability of courses. Other courses may be approved with the permission of one of the Concentration Advisors.

The following courses are recommended to those interested in the concentration. They are introductory level courses that give a good overview of the topics and subject matter covered in more depth by other courses in the concentration:

Recommended introductory courses:

GSD	5394	Travel Behavior Forecasting (to be offered 2021-22)	Voulgaris
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Pre-approved courses include:

FALL 2020

GSD	3241	Theories of Landscape as Urbanism	Waldheim
FAS	ECON 2340	Transportation and Development: Evidence and Quantitative Models	Kreindler
FAS	SCI 6482	Confronting Climate Change: A Foundation in Science, Technology and Policy (at FAS)	Schrag
HKS	API-141	Finance	Deep
HKS	IGA-411	The Energy-Climate Challenge	Lee, Holdren
HKS	DEV-209	Management, Finance, and Regulation of Public Infrastructure in Developing Countries	Lee
HKS	MLD 411	Introduction to Budgeting and Financial Management	Blimes, Iammartino



HKS	MLD-605M	Supply Chain Management for Public Service Delivery	Fagan
HLS	2040	Autonomous Vehicles and the Law*	Weinstock
MIT	1.232J	The Airline Industry	Belobaba, Balakrishnan, Barnhart, Hansman, Kochan, Swelbar
MIT	11.250	Transportation Research Design*	Zhao
MIT	11.529	Mobility Ventures: Driving Innovation in Transportation Systems	Zhao, Moavenzadeh, Aulet
MIT	11.540	Urban Transportation Planning	Aloisi
MIT	11.544J	Transportation Systems Analysis: Performance and Optimization*	Wu
MIT	11.601	Introduction to Environmental Policy and Planning	Susskind

*requires permission of instructor

SPRING 2021

GSD	4374	Cities, Infrastructures, and Politics: From Renaissance to Smart Technologies	Picon
FAS	AFRAMER 130Y	Mobility, Power and Politics	Agbiboa
HKS	API-135	Economics of Climate Change and Environmental Policy	Stavins
HKS	DEV-209	Management, Finance, and the Regulation of Public Infrastructure in Developing Countries	Lee
MIT	11.202	Demand Modeling*	Ben-Akiva
MIT	11.250	Transportation Research Design*	Zhao
MIT	11.478	Behavior and Policy: Connections in Transportation	Zhao
MIT	11.526J	Comparative Land Use and Transportation Planning*	Rosenblum
MIT	11.545J	Transportation Systems Analysis: Demand and Economics*	Ben-Akiva

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Pre-approved, but not offered in 2020-2021:

GSD	5302	Transportation Policy and Planning*	Gomez-Ibanez
HKS	API-148	Advanced Risk Management and Infrastructure Finance	Deep
HKS	IGA-410	Energy Policy: Technologies, Systems, and Markets*	Lee
HKS	MLD-410	State and Local Financial Policy	Chodos
HLS	2227	Autonomous Vehicles and Local Government Lab* (2-units)	Crawford
MIT	11.254	Transport Modeling Course*	Murga
MIT	11.258J	Public Transportation Systems*	Wilson, Atanucci, Koutsopoulous
MIT	11.260J	Logistics Systems	Sheffi, Caplice
MIT	11.371J	Environmental Law, Policy, and Economics: Pollution, Prevention and Control	Ashford, Hansman, Kochan
MIT	11.371J	Sustainable Energy	Golay



MIT	11.381	Infrastructure Systems in Theory and Practice	Hsu
MIT	11.479J	Water and Sanitation Infrastructure in Developing Countries*	Murcott
MIT	11.543	Transportation Policy, the Environment, and Livable Communities	TBA
MIT	11.S941	Global Aging: Planning Cities for a 100-Year Society	Coughlin

**requires permission of instructor*