



Interdepartmental Doctoral Program in Transportation Approval Form Form Completion Instructions

1. Student downloads form.
2. After completing form, student obtains the signature of their advisor. We recommend using <http://docusign.mit.edu/> to obtain all signatures. Instructional video to be found here: <https://bit.ly/cee-docusign>
3. Student submits signed completed form through Jot Form here: <https://form.jotform.com/201686539462059>



Interdepartmental Doctoral Program in Transportation Approval Form

Candidate Name: _____

Doctoral Core Program: Please select BASE + ONE of Five Areas of Focus

Base

- Transportation System Analysis: 1.200 + one of (1.202, 1.208, 1.260, 6.7260 and 11.478)

Five Areas of Focus

- 1. Demand: If 1.202 is NOT used in the TSA base: 1.202 and (1.205 or 14.382)
If 1.202 is used in the TSA base: 1.205 and (14.382 or (14.380+14.381))
Note for either selection (14.380+14.381) and 14.382 can be replaced with one of the following more advanced subjects: 14.384, 14.385, and 14.386
 - a. 1.202 Demand Modeling
 - b. 1.205 Advanced Demand Modeling
 - c. 14.382 Econometrics
 - d. 14.380 Statistical Method in Economics and 14.381 Applied Econometrics
 - e. 14.384 Time Series Analysis
 - f. 14.385 Nonlinear Econometric Analysis
 - g. 14.386 New Econometric Methods
- 2. Performance and Optimization: (1.203 or 6.7710) and (15.093 or 15.081 or 6.7950)
 - a. 1.203 Applied Probability and Stochastic Models OR 6.7710 Discrete Stochastic Processes
 - b. 15.093 Optimization methods OR 15.081 Introduction to Math Programming OR 6.7950 Advanced Topics in Control (Reinforcement Learning: Foundations and Methods)
- 2. Planning and Policy: two of 11.478, 11.526, 11.540 [written exam required for this area]
 - a. 11.478 Behavioral Science and Urban Mobility
 - b. 11.526 Comparative Land Use and Transportation Planning
 - c. 11.540 Urban Transportation Planning
- 3. Networks: (1.208 or 6.7260) and (15.083 or 15.094)
 - a. 1.208 Resilient Networks or 6.7260 Network Science and Models
 - b. 15.083 Integer Programming and Combinatorial Optimization or 15.094/1.142J Robust Modeling, Optimization, and Computation
- 4. Logistics: If 1.260 is NOT used in the TSA base, 1.260 and (15.764 or (15.762 + 15.763)). If 1.260 is used in the TSA base, 15.764 and (15.762 + 15.763)
 - a. 1.260 Logistics Systems
 - b. 15.764 The Theory of Operations Management
 - c. 15.762[J] Supply Chain Planning and 15.763[J] Manufacturing System and Supply Chain Design



Fill in the selected subjects from your BASE + Area of Focus

Proposed General Exam Subjects (List all subjects, total units including General Exam should equal 120)

	Subject Number	Subject Title	Term Taken	Units
Base	1.200	Transportation: Foundations and Methods		12
Base				
Focus Area				
Focus Area				

Proposed Doctoral Program (List all subjects, total units including General Exam should equal 120)

Subject Number	Subject Title	Term Taken	Units

Total Units: _____

Candidate's Signature Date

Faculty Advisor's Signature Date

Transportation Director's Signature Date

*Subjects taken for a Master of Science in Transportation at MIT will be counted towards the 120 unit requirement.
Upon completion please submit form through Jot Form at <https://cee.mit.edu/resources/>