

AY 2024-25 MASTER'S DEGREE PLAN OF STUDY TRANSPORTATION SYSTEMS

Name:	Student ID Number:
Qtr./Year Expected to Advance to Candidacy:	Email Address:
Qtr./Year Expected to Graduate:	GPA:
Thesis or Non-Thesis Option:	Thesis Advisor:

Thesis or Non-Thesis Option:					Thesis Advisor:		
					NON-THESIS OPTION 48 UNITS TOTAL	THESIS OPTION 48 UNITS TOTAL	
COURSE TITLE	COURSE NUMBER	UNITS	GRADE	QTR/YR	Core Courses 28 out of 48 units Students must fulfill a minimum of 28 units made up of the core courses listed to the left and below: The remaining core courses (at least 4)		
Travel Demand Analysis I	CEE 220A	4					
Transportation Systems Analysis I	CEE 221A	4					
Urban Transportation Networks I TOTAL UNITS FOR THE	CEE 228A IS SECTION: COURSE NUMBER		GRADE	QTR/YR	may be chosen from the following: CEE 223 CEE 224A CEE 226A or 226B (not both) CEE 229A or 229B (not both) CEE 283** **Required for students without Differential Equations and Linear Algebra on prior transcript(s) Electives 12 out of 48 units	may be chosen from the following: CEE 223 CEE 224A CEE 226A or 226B (not both) CEE 229A or 229B (not both) CEE 283** **Required for students without Differential Equations and Linear Algebra on prior transcript(s) MS Thesis Research 10 out of 48 units	
					Students must fulfill a minimum of Students can fulfill	Students can fulfill a maximum of 10 units of CEE 296: MS Thesis	
TOTAL UNITS FOR TH	IS SECTION:						
COURSE TITLE	COURSE NUMBER	UNITS	GRADE	QTR/Y R	Seminars/Other 8 out of 48 units Required: 3 units of CEE 295: Seminars in CEE. Max. of 3 units apply to degree requirements. Options for the remaining 5 units:	Seminars/Other 10 out of 48 units Required: 3 units of CEE 295: Seminars in CEE. Max. of 3 units apply to degree requirements. Options for the remaining 7 units:	
TOTAL UNITS FOR TH	IS SECTION:				 Approved graduate-level courses see page 2 CEE 299 Individual Research units Approved upper-division undergraduate units. 10 units max 	 Approved graduate-level courses see page 2 CEE 299 Individual Research units Approved upper-division undergraduate units. 10 units max 	
TOTAL UNITS FOR ALL	SECTIONS:						
SIGNATURES:					MS THI	ESIS COMMITTEE MEMBERS:	

SIGNATURES: STUDENT: DATE: CHAIR: TRANSPORTATION FOCUS AREA ADVISOR: DATE: MEMBER: CEE GRADUATE ADVISOR: DATE: MEMBER:

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This form must be submitted to the Grad. Coordinator by the end of the **FIRST** quarter of enrollment. Changes to this form **MUST** be approved by the Transportation Focus Area Advisor, Professor Michael Hyland, hylandm@uci.edu

CEE Courses:	Non-CEE Courses (Electives Cont.): Please check
	individual Department schedules to confirm course offerings.
ENGRCEE 214 GIS for CEE (F) ¹	ECON 243A Game Theory
ENGRCEE 220A Travel Demand Analysis I (F)	ECON 243B Advanced Game Theory
ENGRCEE 220B Travel Demand Analysis II (*)	ECON 281A Urban Economics
ENGRCEE 220C Travel Demand Analysis III (*)	ECON 281B Urban Economics II
ENGRCEE 221A Transportation Systems Analysis I (W)	ECON 282A Transportation Economics I
ENGRCEE 221B Transportation Systems Analysis II (*)	ECON 282B Transportation Economics II (S18)
ENGRCEE 222 Transit Systems Planning (*)	EECS 215 Design and Analysis of Algorithms
ENGRCEE 223 Transportation Systems Planning (S)	EECS 227 Cyber-Physical System Design
ENGRCEE 224A Transportation Data Analysis I (S)	EECS 240 Random Processes
ENGRCEE 225A Transportation Planning Models I (*)	EECS 242 Information Theory
ENGRCEE 225B Transportation Planning Models II (*)	EECS 260A Linear Systems I
ENGRCEE 226A Traffic Flow Theory I (*)	ENGR 280 Entrepreneurship for Scientists and Engineers
ENGRCEE 226B Traffic Flow Theory II (*)	MGMTMBA 208 Operations Management
ENGRCEE 228A Urban Transportation Networks I (F)	MGMTMBA 285 Supply Chain Management
ENGRCEE 228B Urban Transportation Networks II (S)	MGMTPHD 297Q Game-Theoretic Models for Mgmt. Res.
ENGRCEE 229A Traffic Systems Operations & Control I (W)	MGMTPHD 297T Decision Theory
ENGRCEE 229B Traffic Systems Operations & Control II (W)	MATH 225B Intro to Numerical Anal. & Scientific Computing
ENGRCEE 283 Mathematical Methods in Eng. Analysis (F)	ENGRMAE 206 Nonlinear Optimization Methods
ENGRCEE 296 MS Thesis Research (F, W, S)	ENGRMAE 214A Fuel Cell Fundamentals and Technologies
ENGRCEE 298 Smart Cities (S)	UPPP 202 History of Urban Planning
ENGRCEE 298 Infrastructure Eqty (F)	UPPP 207 Land-Use Law
ENGRCEE 298 Energy Data & Model (F)	UPPP 231 Transportation and Environmental Health
ENGRCEE 298 Trans Data Anlys II	UPPP 235 GIS Problem Solving in Planning ¹
ENGRCEE 298 Sim for Mobilty Dsgn	UPPP 244 Land-Use Policy
ENGRCEE 299 Individual Research (F, W, S)	PUBHLTH 260 Human Exposure Modeling
N CIER C (El 4') Pi	SOCECOL 272A Structural Equation Modeling I
Non-CEE Courses (Electives): Please check individual	STATS 245 Time Series Analysis
Department schedules to confirm course offerings.	STATS 260 Inference with Missing Data
CRM/LAW C207 Land Use Law	STATS 262 Theory and Practice of Sample Surveys
BANA 212 Data and Programming for Analytics	STATS 270 Stochastic Processes
BANA 295 Big Data Management Systems	
COMPSCI 206 Principles of Scientific Computing	
COMPSCI 244P Introduction to the Internet of Things	
COMPSCI 261 Data Structures	
COMPSCI 268 Introduction to Optimization Modeling	
COMPSCI 273A Machine Learning	
COMPSCI 274C Neural Networks and Deep Learning	
EARTHSS 212 Geoscience Modeling and Data Analysis	
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(F): Fall Quarter; (W): Winter Quarter; (S): Spring Quarter; (*): Not offered in 2024-25

The following can **ONLY** be included with **prior** approval of the Transportation Focus Area Advisor, Professor Michael Hyland: hylandm@uci.edu

- Upper-division undergraduate courses and/or non-CEE graduate courses (outside of those listed above). Include a description of the course in your email request to Professor Michael Hyland.
- MS Thesis Research units can be extended to 16 units. You must email your request to Professor Michael Hyland.

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^{1:} Students can count either CEE 214 (GIS) or UPPP 235 (GIS) toward degree requirement, <u>BUT NOT BOTH.</u>