

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

COURSE TITLE	COURSE Number	UNITS	GRADE	QTR/YR	<b><u>NON-THESIS OPTION:</u></b> <b>48 Units Total</b>	<b><u>THESIS OPTION:</u></b> <b>48 Units Total</b>
Travel Demand Analysis I	CEE 220A	4			<p><b><u>Core Courses: 28 units</u></b> Students must fulfill a minimum of <b>28</b> units made up of the core courses listed to the left and below:</p> <p>The remaining core courses (at least 3) may be chosen from the following: CEE 223 CEE 224A CEE 226A or 226B CEE 229A or 229B</p>	<p><b><u>Core Courses: 28 units</u></b> Students must fulfill a minimum of <b>28</b> units made up of the core courses listed to the left and below:</p> <p>The remaining core courses (at least 3) may be chosen from the following: CEE 223 CEE 224A CEE 226A or 226B CEE 229A or 229B</p>
Transportation Systems Analysis I	CEE 221A	4				
Urban Transportation Networks I	CEE 228A	4				
Mathematical Methods in Engineering Analysis	CEE 283	4				

**TOTAL UNITS FOR THIS SECTION:**

COURSE TITLE	COURSE	UNITS	GRADE	QTR/YR	<b><u>Electives: 12 out of 48 Units</u></b>	<b><u>MS Research: 10 out of 48 Units</u></b>
					<p>Students must fulfill a minimum of <b>12</b> elective units from graduate courses listed on page 2.</p>	<p>Students can fulfill a minimum of <b>10</b> units of CEE 296: MS Thesis Research.</p>

**TOTAL UNITS FOR THIS SECTION:**

COURSE TITLE	COURSE	UNITS	GRADE	QTR/YR	<b><u>Seminars/Other</u></b> <b>(8 out of 48 Units)</b>	<b><u>Seminars/Other</u></b> <b>(10 out of 48 Units)</b>
					<p><b><u>Required: 3 units of CEE 295: Seminars in CEE</u></b> (Max. of 3 units apply to degree requirements).</p> <p><b><u>Options for the remaining 5 units:</u></b> 1. Approved graduate-level courses (see page 2) 2. CEE 299 Individual Research units 3. Approved upper-division undergraduate units (max. 10 units)</p>	<p><b><u>Required: 3 units of CEE 295: Seminars in CEE</u></b> (Max. of 3 units apply to degree requirements).</p> <p><b><u>Options for the remaining 7 units:</u></b> 1. Approved graduate-level courses (see page 2) 2. CEE 299 Individual Research units 3. Approved upper-division undergraduate units (max.10 units)</p>

**TOTAL UNITS FOR THIS SECTION:**

**TOTAL UNITS OF ALL SECTIONS:**

<b><u>SIGNATURES:</u></b>		<b><u>MS THESIS COMMITTEE MEMBERS:</u></b>	
CANDIDATE:	DATE:	CHAIR:	
FACULTY ADVISOR:	DATE:	MEMBER:	
CEE GRADUATE ADVISOR:	DATE:	MEMBER:	

**Note:** 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 Faculty Graduate Advisor, Professor Jay Jayakrishnan: [rjayakri@uci.edu](mailto:rjayakri@uci.edu)

<b>CEE Courses:</b>	<b>Non-CEE Courses (Electives Cont.):</b>
ENGRCEE 220A Travel Demand Analysis I (F) ENGRCEE 220B Travel Demand Analysis II (W) ENGRCEE 220C Travel Demand Analysis III (S) ENGRCEE 221A Transportation Systems Analysis I (F) ENGRCEE 221B Transportation Systems Analysis II (S) ENGRCEE 222 Transit Systems Planning (*) ENGRCEE 223 Transportation Systems Planning (S) ENGRCEE 224A Transportation Data Analysis I (W) ENGRCEE 225A Transportation Planning Models I (*) ENGRCEE 225B Transportation Planning Models II (*) ENGRCEE 226A Traffic Flow Theory I (F) ENGRCEE 226B Traffic Flow Theory II (*) ENGRCEE 228A Urban Transportation Networks I (W) ENGRCEE 228B Urban Transportation Networks II (S) ENGRCEE 229A Traffic Systems Operations & Control I (W) ENGRCEE 229B Traffic Systems Operations & Control II (S) ENGRCEE 283 Mathematical Methods in Eng. Analysis (F) ENGRCEE 290 Merging Models and Data (*) ENGRCEE 296 MS Thesis Research (F,W,S) ENGRCEE 298 GIS for Civil & Env. Engineering (F) <sup>1</sup> ENGRCEE 298 Smart Cities (W) ENGRCEE 299 Individual Research (F,W,S)	ECON 243A. Game Theory ECON 243B. Advanced Game Theory ECON 281A. Urban Economics ECON 281B. Urban Economics II ECON 282A. Transportation Economics I ECON 282B. Transportation Economics II (S18) EECS 215. Design and Analysis of Algorithms EECS 227. Cyber-Physical System Design EECS 240. Random Processes EECS 242. Information Theory EECS 260A. Linear Systems I ENGR 280. Entrepreneurship for Scientists and Engineers MGMTMBA 208. Operations Management MGMTMBA 285. Supply Chain Management MGMTPHD 297Q. Game-Theoretic Models for Mgmt Research MGMTPHD 297T. Decision Theory MATH 225B. Intro to Numerical Anal. & Scientific Computing ENGRMAE 206. Nonlinear Optimization Methods ENGRMAE 214A. Fuel Cell Fundamentals and Technologies UPPP 202. History of Urban Planning UPPP 207. Land-Use Law UPPP 231. Transportation and Environmental Health UPPP 235. GIS Problem Solving in Planning <sup>1</sup> UPPP 244. Land-Use Policy PUBHLTH 260. Human Exposure Modeling SOCECOL 272A. Structural Equation Modeling I STATS 245. Time Series Analysis STATS 260. Inference with Missing Data STATS 262. Theory and Practice of Sample Surveys STATS 270. Stochastic Processes
<b>Non-CEE Courses (Electives): Please check individual Department schedules to confirm course offerings</b>	
CRM/LAW C207 Land Use Law BANA 212 Data and Programming for Analytics 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	

**Key:**

(F): Fall Quarter; (W): Winter Quarter; (S): Spring Quarter; (\*): Not offered in 2019/2020

\*\* : These are approved ENGRCEE 298 courses that can apply toward MS program requirements via a General Petition. Please contact the Graduate Coordinator to discuss this process (April Heath: [a.heath@uci.edu](mailto:a.heath@uci.edu)).

<sup>1</sup>: Students can count either CEE 298 (GIS) or PPD 235 (GIS) toward degree requirement, BUT NOT BOTH.

**NOTE:** The following can **ONLY** be included with **prior** approval of the Graduate Advisors/Director.

- 1) 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 R. Jay Jayakrishnan: [rjayakri@uci.edu](mailto:rjayakri@uci.edu).
- 2) MS Thesis Research units can be extended to 16 units. Include email approval from Thesis Advisor in request to Prof. Russell Detwiler: [detwiler@uci.edu](mailto:detwiler@uci.edu).