

MS in Civil Engineering, Transportation Emphasis Program Requirements (updated March 2017)

I. Core Classes (discuss options with your faculty advisor)

Course No.	Course Title	Credit Hours	Semester Offered	Transportation Emphasis		
				Traffic	Planning	Pavement
STAT 511	Statistical Methods for Research	3	F/W	●	●	●
CEEn 505	Concrete Materials	3	W	○	○	●
CEEn 562	Traffic Engineering	3	F	●	●	○
CEEn 563	Pavement Design	3	F	○	○	●
CEEn 565	Urban Transportation Planning	3	F	●*	●	○
CEEn 662**	Traffic Simulation & Analysis	3	W	●	●	○
CEEn 664**	Transportation Site Planning	3	W	●*	●	○
CEEn 691R	Seminar	1	F/W	●	●	●
CEEn 698R/699R	Project (3 cr.) or Thesis (6 cr.)	3 or 6	F/W/Sp/Su	●	●	●
Required Core Sub Total:				16–22	19–22	13–16
● Required			○ Recommended			

* Either CEEEn 565 or CEEEn 664 or both depending on student preference and needs

** CEEEn 562 is a prerequisite

II. For those desiring to pursue the “soft” side of transportation engineering (i.e., traffic or planning), select courses beyond the required core classes (9–15 credit hours) from the “recommended” core classes or from the following list (Note: Students are allowed a maximum 3 credits at the 400 level in their graduate program). Be sure to check the latest Graduate Catalog to confirm semester offerings.

1.	CE En	414	Engineering Applications of GIS	3 cr.	F
2.	CE En	461	Geometric Design of Highways	3 cr.	F
3.	CE En	514	Geoinformatics (advanced GIS)	3 cr.	W
4.	CE En	594R	Pavement Management	3 cr.	on demand
5.	CE En	594R	Asphalt Mixture Design/Analysis	3 cr.	on demand
6.	CE En	594R	Technical Writing for Publication	3 cr.	on demand
7.	CE En	694R	Soil Physics	3 cr.	on demand
8.	GEOG	410	Urban Planning Methods	3 cr.	W
9.	GEOG	424	Urban Transportation Planning	3 cr.	W
10.	GEOG	510	Professional Planning Studio	3 cr.	F
11.	STAT	512	Statistical Methods for Research 2	3 cr.	W
12.	MPA	675	Local Gov't I: Form of Gov't and Service Delivery	3 cr.	W
13.	MPA	676	Local Gov't II: Planning, Land Use, and Growth	3 cr.	F
14.	MPA	631	Public Program Evaluation	3 cr.	W

*****Note: MPA courses taught at the Salt Lake Center are not accepted for the Graduate Program**

For more detailed MPA course information, contact Catherine Cooper, 762 TNRB (2-9173).

For more detailed GEOG course information, contact Dr. Michael J. Clay, 690 SKWT (2-6359).

III. For those desiring to pursue the “hard” side of transportation (i.e., pavements and materials), select courses beyond the required core classes (15–18 credit hours) from the “recommended” core classes, from the CE En 594R and other course offerings within the CEEEn Department, from classes offered by the Geology Department, or from other courses relevant to your course of study as agreed upon by your graduate committee.

For further information on the Transportation Engineering emphasis within the Department, contact:

Traffic:	Dr. Saito	801-422-6326	msaito@byu.edu	368 J Clyde Bldg.
Planning:	Dr. Schultz	801-422-6332	gschultz@byu.edu	368 H Clyde Bldg.
Pavement:	Dr. Guthrie	801-422-3864	guthrie@byu.edu	368 D Clyde Bldg.