

Transportation and Construction Division
Transportation Specialty
Ph.D. Degree

1. Degree requirements for various options:

	Non-Intern	TransNow Intern
Credits from Master's Degree	30	30
UW Coursework	30	27
500 Seminar*	3	3
601 Intern	N.A.	3
800 Dissertation	27	27
Total	90	90

*If the 500 seminar was taken during the Masters program at the UW, this should be skipped and replaced by one additional 3 credit course.

Notes and General Requirements

- A degree program plan must be submitted to the CEE Graduate Advising Office and your faculty advisor before the end of your first academic quarter.
- At least 3 classes must be taken outside the CEE department. This requirement is met by taking one of two possible statistics courses: INDE 315 or STAT 390 and 2 other classes approved by your advisor.
- CEE 320 or its equivalent is a required course.
- The two core choices [(INDE 315 or STAT 390) and CEE 320] are the only 300 level courses that can be counted toward the degree.
- At least half of coursework classes must be at the 500 level.
- The General Requirements noted in the Department's "CEE PhD Degree Requirements" available on the department website and from the Transportation area graduate advisor.

2. Required Transportation Program Courses

Quarter	Course	Credits (Total)
A, W, Sp	CEE 500 Seminar	3
A, W, Sp	CEE 601 Internship (TransNow Interns Only)	(3)
A, W	INDE 315 or STAT 390	3 or 4
A, S	CEE 320 or equivalent	3
--	Plus two of the following: CEE 491, CEE 492, ECON 482, CEE 584, GEOG 426, INDE 424, INDE 521, STAT 421, STAT 423, STAT 486 or classes necessary for your dissertation research and approved by your faculty advisor. See course titles below.	6
A, W, Sp	CEE 800 (for dissertation research)	(27)

- CEE 491 Deterministic Systems; CEE 492 Stochastic Systems; CEE 584 Analytical Methods in Transportation I
- ECON 482 Economic Methods
- GEOG 426 Quantitative Methods in Geography
- INDE 424 Simulation; INDE 521 Quality Control in Manufacturing
- STAT 421 Applied Statistics and Experimental Design; STAT 423 Applied Regression and Analysis of Variance; STAT 486 Experimental Design

4. **Typical Courses taken by Quarter**

Total courses shown by Quarter exceed the maximum that should be taken. This list of courses is not guaranteed and may be subject to change. Please refer to the UW Timeschedule as it becomes available.

Quarter	Course Number	Title	Credits
Autumn 2010	IND E 315 or STAT 390	Probability and Statistics	3
	CEE 320	Transportation Engineering	3
	CEE 421	Pavement Design	3
	CEE 424	GIS for Civil Engineers	3
	CEE 500	Seminar	1
	CEE 580/416	Urban Transportation Planning and Design	4
	CEE 590	Traffic Systems Operations	3
	CEE 601	Internship (Only for Intern Option)	2
	Winter 2011	CEE 404	Infrastructure Construction
CEE 500		Seminar	1
CEE 581		Travel Demand Forecasting	4
CEE 591		Freight Transportation	3
CEE 599/412		Trans Data Management and Analysis	3
CEE 587		Transportation Logistics	3
CEE 599		Freight Seminar	3
CEE 599		Energy and the Environment	3
CEE 601		Internship (Only for Intern Option)	2
Spring 2011	CEE 320	Transportation Engineering	3
	CEE 410*	Traffic Engineering Fundamentals	3
	CEE 441	Transportation and Construction Capstone	4
	CEE 500	Seminar	1
	CEE 587	Transportation Logistics	3
	CEE 597	Pavement Construction and Quality Control	3
	CEE 599	Transportation Survey Methods	3
	CEE 599	Analytical Methods in Human Factors and Transportation	3
	CEE 601	Internship (Only for Intern Option)	2

*Prerequisite: CEE 320 or equivalent. Graduate students who wish to enroll in CEE 410 who do not meet this requirement must enroll in CEE 320 Autumn Quarter.

Note: A wide variety of 400 and 500 level construction-oriented courses are available to CEE Transportation and Construction Graduate Students through the Department of Construction Management in the College of Architecture and Urban Planning.