Degree Requirements for
Masters in Civil Engineering – Transportation Focus

**Department of Civil & Architectural Engineering
University of Wyoming**

General Degree Requirements for Plan A – Thesis Option:
- 26 Course Credits,
- 4 Research Credits, and
- A minimum of 6 courses must be at the 5000 level

Course Requirements:

Transportation Courses – At least 5 courses must be from the following list:

Number	Title	Credits
CE 5510	Pavement Design	3
CE 5530	Traffic Operations	3
CE 5555	Geometric Design	3
CE 4920	Engineering Optimization	3
CE 5540	Traffic Controls (No longer offered)	3
CE 5560	Traffic Safety	3
CE 5570	Transportation Planning	3
CE 5575	Intelligent Transportation Systems	3
CE 5585	Pavement Mgmt. Systems	3
CE 5590	Pavement Materials	3
CE 5700**	Network Analysis	3
CE 5700	CE Problems I	6 Max
CE 5700	TLN Course	3
CE 5710	Transportation Seminar	2 Max
CE 5720	CE Problems II	6 Max
**Permanent course number pending.		

Statistics Courses – At least 1 course must be from the following list:

Number	Title	Credits
Stat 5015	Regression Analysis	3
Stat 5025	Design & Analysis of Experiments	3
Stat 5000	Statistical Analysis for Research Workers	3
Stat 5045	Categorical Data Analysis	3
Stat 5115	Time Series Analysis and Forecasting	3
Stat 5070	Statistical Methods for Social Sciences	3
Stat 5320	Design & Analysis of Experiments II	3
Stat 5350	Survey Construction and Analysis	3
Advisor may also approve a substitution for a class not on the list.		

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Related Disciplines: At least 1 course must be from the following list:

Number	Title	Credits
Mgt 4410	Human Resources Management	3
Mgt 4450	Selection, Training and Development	3
Mgt 4650	Total Quality Management	3
DSCI 4240	Computer Applications in Decision Sciences	3
Econ 4230	Intermediate Econometric Theory	3
ECON 4350	Game Theory	
ECON 4520	Public Finance	3
ECON 4530	State and Local Finance	3
GEO 5330	Land Use Planning	3
ES 4910	Survey of Project Management	3
MATH 4200	Mathematical Analysis I	3
MATH 4205	Mathematical Analysis II	3
MATH 4300	Introduction to Mathematical Modeling	3
Advisor may also approve a substitution for a class not on the list.		

Civil Engineering Courses– The following courses count towards the required 26 credits:

Number	Title	Credits
CE 4610	Foundation Engineering	3
CE 4630	Geotechnical Engineering	3
CE 4800	Hydrology	3
CE 5010	Advanced Mechanics of Materials	3
CE 5230	Advanced Materials	3
CE 5270	Highway Bridge Engineering	3
CE 5620	Earth Retaining & Slope Stability	3
CE 5820	Design of Small Earth Dams	3
Advisor may also approve a substitution for a class not on the list.		

Other University of Wyoming Courses:

Advisor may also approve a substitution for a class not on any of the lists to count towards the required 26 credit hours.

General Degree Requirements for Plan B – Non-Thesis Option:
All degree requirements for Plan B are the same as Plan A except for the total number of credits, which is increased from 26 to 30 credits. Students receiving graduate assistantships are typically required to complete a Plan A.

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