

Department of Civil & Environmental Engineering

Civil Engineering Tracks

At the graduate level, the Department offers following civil engineering tracks:

- Transportation Engineering Track
- Structural Engineering Track
- Water Resources Engineering Track
- Geotechnical Engineering Track

The core courses for each track are shown below. In addition, the students are required to take elective courses. The detailed descriptions are shown in the graduate curriculum.

Core Courses

Course	Title	Semester Hours
<u>Transportation Engineering Track</u>		
CIV 530	Advanced Pavement Analysis and Design	3
CIV 531	Traffic Engineering	3
CIV 532	Pavement Materials and Design	3
<u>Structural Engineering Track</u>		
CIV 540	Advanced Structural Analysis	3
CIV 541	Structural Dynamics	3
CIV 542	Advanced Design of Concrete Structures	3
<u>Water Resources Engineering Track</u>		
CIV 550	Engineering Hydrology	3
CIV 551	Advanced Fluid Mechanics	3
CIV 652	Hydraulic Engineering Design	3
<u>Geotechnical Engineering Track</u>		
CIV 672	Advanced Geomechanics	3
CIV 673	Advanced Foundation Engineering	3
CIV 674	Soil Dynamics	3