

Civil Engineering Master's Program

Employee Prerequisites & Requirements

- Acceptance into the UTK's graduate school
- 1 year of service with TDOT
- Overall performance rating of "meets expectations" throughout the past 12-month cycle
- Signed contract with time commitment clause

TDOT pays 100% of the tuition for up to two courses per semester. Application fee, graduation fee, etc. are not included.

For more information, please visit our website at:

<https://www.tn.gov/tdot/human-resources-home/tdot-education/tdot-education-master-of-civil-engineering-program.html>



Course Descriptions

Core Classes



CE 522

Mix Design for Asphaltic & Portland-Cement Concrete



CE 551

Traffic Engineering: Characteristics



CE 553

Geometric Design & Layout of Roadways and Community Facilities



CE 581

Construction Estimating



CE 551

Soil Erosion & Sediment Yield



CE 553

Behavior of Reinforced Concrete Members

Elective Courses

CE 530 Advanced Soil Mechanics and Slope Stability

CE 531 Soil Stabilization

CE 532 Soil Slope Stability Analysis

CE 535 Advanced Foundations & Retaining Structures

CE 552 Traffic Engineering: Operations Public Transit Planning and Operations

CE 556 Traffic Crash Reconstruction and Analysis

CE 558 Transportation Planning Models

CE 559 Transportation Safety

CE 561 Finite Element Applications in Structural Engineering

CE 565 Structural Dynamics

CE 571 Behavior of Steel Structures

CE 573 Prestressed Concrete

CE 582 Construction Scheduling

CE 595 Contemporary Issues in Transportation Systems Engineering

CE 595 Artificial Intelligence Applications in Civil and Environmental Engineering

IE 533 Theory & Practice of Engineering Management

IE 534 Financial Management for Engineering Managers

IE 536 Project Management

IE 538 New Venture Formation

IE 539 Strategic Management in Technical Organizations

IE 541 Managing Change & Improvement in Technical Organizations

IE 543 Legal & Ethical Aspects of Engineering Management

ENVE 512 Environmental Transport & Kinetics

ENVE 515 Open Channel Hydraulics

ENVE 530 Urban Hydrology & Stormwater Engineering

ENVE 558 Solid & Hazardous Waste Management

Core classes and/or elective courses listed above are subject to change dependent on UTK