

**CIVIL ENGINEERING DEPARTMENT**  
**Planned Rotation of Undergraduate Electives and Graduate Courses**

5/20/14 BW

**Environmental Engineering/Water Resources Option**

**Fall even years**

ENGR 59910 Introduction to GIS  
CE 58400/H8400 Solid Waste Management  
CE H0700 Advanced Hydraulics  
CE G7100 Water & Wastewater Quality  
CE G8100 Macro-Scale Hydrology  
CE G8400 Air Quality Modeling  
or CE G8600 Air Pollution Measurement  
CE G9500 Remote Sensing in WREE

**Spring odd years**

CE 56600/H1200 Engineering Hydrology  
CE G7800 Solid Waste Reuse & Recycling  
CE 48200 Water & Wastewater Treatmt. Design  
ENGR 30100 Introduction to Remote Sensing  
CE G0800 GIS in WREE  
CE G4500 Advanced Data Analysis  
CE H7600 Biological Wastewater Treatment  
CE G9700 Numerical Methods & Simulation of  
Fluid Flow

**Fall odd years**

ENGR 59910 Introduction to GIS  
CE 58300/H8300 Air Pollution and Control  
CE H0700 Advanced Hydraulics  
CE H7500 Drinking Water Treatment  
CE G8150 Advanced Macro-Scale Hydrology  
CE G9800 Sustainability in Engineering

**Spring even years**

CE 56600/H1200 Engineering Hydrology  
CE G7800 Solid Waste Reuse & Recycling  
CE 57100 Water Quality Analysis  
ENGR 30100 Introduction to Remote Sensing  
CE H0800 Applied Hydraulics  
CE G7300 Surface Water Quality Modeling  
CE G9100 Water Resources System Analysis

**Structures Option**

**Fall Even years**

CE 44200 Structural Design  
CE 53000 Advanced Strength of Materials  
CE 55000 Advanced Reinforced Concrete  
CE I3500 Applied Elasticity & Plasticity  
CE H5200 Bridge Engineering  
CE H5700 Condition Assessment & Rehab. of Structures  
CE G0200 High-Rise Building Design and Analysis

**Spring Odd years**

CE 44000 Finite Element Analysis of Structures  
CE 59000 Foundation Engineering  
CE I1700 Finite Element Methods in Engr.  
CE I3000 Structural Dynamics  
CE H5300 Advanced Structural Design  
CE H5100 Prestressed Concrete

**Fall Odd years**

CE 44200 Structural Design  
CE 53000 Advanced Strength of Materials  
CE 55000 Advanced Reinforced Concrete  
CE I3500 Applied Elasticity & Plasticity  
CE G0100 Linear Analysis of Structures  
CE H5400 Linear and Nonlinear Analysis of Structures  
CE I5600 Earthquake Engineering

**Spring Even years**

CE 44000 Finite Element Analysis of Structures  
CE 59000 Foundation Engineering  
CE I1700 Finite Element Methods in Engr.  
CE I3000 Structural Dynamics  
CE H5300 Advanced Structural Design  
CE I5500 Stability of Structures

**Transportation Option**

**Fall odd and even years**

CE 52000 Traffic Engineering

**Spring odd and even years**

CE 54000 Highway Engineering