

Sustainability Engineering, Graduate Certificate

Overview

Society is facing increasingly complex and multidisciplinary challenges in balancing the relationship between the built environment and the earth system. The four-course certificate in sustainability engineering provides foundational knowledge that facilitates framing challenges and working on multidisciplinary topics to address sustainability challenges, including engineering perspectives, toolsets, and data methods.

Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

Requirements

Code	Title	Hours
Complete one of the following:		4
CIVE 5150	Climate and Atmospheric Change	
CIVE 5250	Organic Pollutants in the Environment	
CIVE 5363	Climate Science, Engineering Adaptation, and Policy	
Complete one of the following:		4
CIVE 5699	Special Topics in Civil Engineering (Intro to Air Quality Engineering Science - 4 semester hours)	
CIVE 7250	Environmental Chemistry	
CIVE 7251	Environmental Biological Processes	
Complete one of the following:		4
CIVE 5275	Life Cycle Assessment of Materials, Products, and Infrastructure	
CIVE 6566	Sustainable Urban Transportation: Netherlands	
SBSY 5100	Sustainable Design and Technologies in Construction	
Complete one of the following:		4
CIVE 5373	Transportation Systems: Analysis and Planning	
CIVE 5984	Research (4 semester hours)	
CIVE 7100	Time Series and Geospatial Data Sciences	
CIVE 7260	Hydrologic Modeling	
CIVE 7388	Special Topics in Civil Engineering (Random Data and Processing)	

Program Credit/GPA Requirements

16 total semester hours required

Minimum 3.000 GPA required