

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

- Concentrations and course offerings may vary by campus and/or by program modality. Please consult with your advisor or admissions coach for the course availability each term at your campus or within your program modality.
- Certain options within the program may be *required* at certain campuses or for certain program modalities. Please consult with your advisor or admissions coach for requirements at your campus or for your program modality.

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