

COURSE DETAIL

SUSTAINABLE AND RESILIENT INFRASTRUCTURE

Country

United Kingdom - England

Host Institution

University of Manchester

Program(s)

University of Manchester

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Civil Engineering

UCEAP Course Number

119

UCEAP Course Suffix**UCEAP Official Title**

SUSTAINABLE AND RESILIENT INFRASTRUCTURE

UCEAP Transcript Title

SUSTAINABLE INFRAST

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course teaches students about the concepts of sustainability and resilience, and the main implications for infrastructure. Students should have a quantitative and qualitative understanding of both present and future challenges that face critical infrastructures (waste, energy, transport, and water). The course develops understanding and skills to compare costs and benefits of different technologies, materials, and managerial approaches that are relevant to the sustainability and resilience of infrastructure. It enables students to understand how decisions about infrastructure systems are made under conditions of complexity and uncertainty. It also enables students to develop professional skills.

Language(s) of Instruction

English

Host Institution Course Number

CIVL14022

Host Institution Course Title

SUSTAINABLE AND RESILIENT INFRASTRUCTURE

Host Institution Campus

University of Manchester

Host Institution Faculty

Host Institution Degree

Host Institution Department

Civil Engineering

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