

COURSE DETAIL

FIRE SCIENCE AND ENGINEERING 2

Country

United Kingdom - Scotland

Host Institution

University of Edinburgh

Program(s)

University of Edinburgh

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Civil Engineering

UCEAP Course Number

109

UCEAP Course Suffix**UCEAP Official Title**

FIRE SCIENCE AND ENGINEERING 2

UCEAP Transcript Title

FIRE SCI & ENGR 2

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

This course provides a multidisciplinary introduction to fire dynamics covering fundamentals applicable to fire safety engineering in the built environment, manufacturing, and process industries. It considers the processes that govern how fires are ignited and how they burn and how they can be controlled through engineering design. The course covers fundamental fire science including thermochemistry, transient heat transfer, material flammability, smoke and fire plumes, and basic fire models; as well as the principles of fire safety engineering, including regulation relevant to the built environment and process industries.

Language(s) of Instruction

English

Host Institution Course Number

CIVE08024

Host Institution Course Title

FIRE SCIENCE AND ENGINEERING 2

Host Institution Campus

University of Edinburgh

Host Institution Faculty

Host Institution Degree

Host Institution Department

School of Engineering

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