

COURSE DETAIL

ADVANCED CIVIL ENGINEERING MATERIALS

Country

United Kingdom - England

Host Institution

University College London

Program(s)

University College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Civil Engineering

UCEAP Course Number

157

UCEAP Course Suffix**UCEAP Official Title**

ADVANCED CIVIL ENGINEERING MATERIALS

UCEAP Transcript Title

ADV CIVIL ENGINEER

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The course provides students with detailed knowledge on advanced construction and building materials used in civil infrastructure, such as sustainability of materials, mechanisms of fracture and failure, fiber reinforced composites, advanced concrete, advanced steel, and advanced engineered wood products. The composition, characteristics, properties, and performance of these materials are introduced in detail, and their availability, cost, and their use in civil engineering are discussed as well, based on which the students develop the ability to make professional decisions about materials selection for civil engineering design within a practical context.

Language(s) of Instruction

English

Host Institution Course Number

CEGE0057

Host Institution Course Title

ADVANCED CIVIL ENGINEERING MATERIALS

Host Institution Course Details

<https://www.ucl.ac.uk/module-catalogue/modules/advanced-civil-engineering-mater...>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Civil, Environmental and Geomatic Engineering

Course Last Reviewed

2025-2026

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