

COURSE DETAIL

CONSTRUCTION MATERIALS

Country

Australia

Host Institution

University of New South Wales

Program(s)

University of New South Wales

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Architecture

UCEAP Course Number

17

UCEAP Course Suffix**UCEAP Official Title**

CONSTRUCTION MATERIALS

UCEAP Transcript Title

CONSTRUCT MATERIALS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course examines the primary structural materials adopted in commercial and residential projects in Australia. It covers the composition of concrete, with a detailed analysis of the properties of its components, including cement, aggregates, and the most utilized admixtures. Students will learn how to design concrete mixes in accordance with Australian Standards. Additionally, the course presents a discussion on alternative sustainable materials that can be used in the concrete mix. The course also examines other structural construction materials, such as steel, masonry, and timber, with discussions presented on their physical and chemical properties, along with design and planning considerations that need to be accounted for. The final part of the course examines finishing material, including ceramics, claddings, curtain walls, painting, and glass.

Language(s) of Instruction

English

Host Institution Course Number

BLDG1012

Host Institution Course Title

CONSTRUCTION MATERIALS

Host Institution Course Details

<https://www.handbook.unsw.edu.au/undergraduate/courses/2025/BLDG1012>

Host Institution Campus

Host Institution Faculty

Built Environment

Host Institution Degree

Host Institution Department

Course Last Reviewed

2024-2025

[Print](#)