

# 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 Campus

### Host Institution Faculty

Built Environment

### Host Institution Degree

### Host Institution Department

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