

# COURSE DETAIL

## BUILDING TECHNOLOGY 1 BUILDING PRINCIPLES

**Country**

Hong Kong

**Host Institution**

University of Hong Kong

**Program(s)**

University of Hong Kong

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Architecture

**UCEAP Course Number**

123

**UCEAP Course Suffix****UCEAP Official Title**

BUILDING TECHNOLOGY 1 BUILDING PRINCIPLES

**UCEAP Transcript Title**

BUILDING TECHNOLOGY

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## **Course Description**

This course addresses the elemental aspects of building and the fundamental principles of structure. It will present building structures in masonry, timber, concrete, steel, glass and composite and examine the constructional possibilities and limitations of the materials. Furthermore it will seek a broad based understanding of how material and constructional choices are determined by its physical site, program, culture, era and environment. The course presents the historical culture of building technology and how material, structural, construction and detail decisions influence the overall architectural project. It will be further demonstrated how the importance of well-articulated geometries and proper means of measurements in drawing and modeling are an essential and integral part of construction methods and processes. The course material will be presented through a series of lectures specific to a material and through analyses of relevant case studies. Assessment: 100% continuous coursework assessment

## **Language(s) of Instruction**

English

## **Host Institution Course Number**

ARCH2056

## **Host Institution Course Title**

BUILDING TECHNOLOGY 1 BUILDING PRINCIPLES

## **Host Institution Course Details**

## **Host Institution Campus**

## **Host Institution Faculty**

## **Host Institution Degree**

## **Host Institution Department**

Architecture

## **Course Last Reviewed**

[Print](#)