

COURSE DETAIL

DIGITAL FABRICATION

Country

Korea, South

Host Institution

Yonsei University

Program(s)

Yonsei University

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Art Studio Architecture

UCEAP Course Number

110

UCEAP Course Suffix**UCEAP Official Title**

DIGITAL FABRICATION

UCEAP Transcript Title

DIGITAL FABRICATION

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This course reviews current technologies on digital fabrication and explores emerging technologies for design and data integration, management, and exchange. Design and construction industries are undergoing dramatic changes, based on evolving technologies such as BIM, Web, Mobile IT and production technologies such as 3d printing. It provides a review of the field from the earliest days of CAD, through the current period using object-relational databases such as ISO-STEP technologies. The course does not make assumptions regarding student's background in detailed information technology per se, but does assume background in design applications, and some knowledge of computing software in order to digitally and physically fabricate actual products. The course explores various applications and hardware for digital fabrication, as well as reviewing current industry issues. Each student is asked to play significant roles in individual project works and final project collaborations, using at least some of followings: Grasshopper, Dynamo, Revit, BIM, Parametric Design, 3d Printing, Robot Arm, Arduino, Computer Programming such as Java, Python, Processing, etc. Assessment: Midterm Project and/or Exam (20%), Final Project and/or Exam (20%), Assignments (20%), Attendance (20%), Class Participation (20%)

Language(s) of Instruction

English

Host Institution Course Number

HID2111

Host Institution Course Title

DIGITAL FABRICATION

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Architecture

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