

# COURSE DETAIL

## INTEGRATED CAPSTONE EXPERIENCE

**Country**

Hong Kong

**Host Institution**

University of Hong Kong

**Program(s)**

University of Hong Kong

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mechanical Engineering

**UCEAP Course Number**

189

**UCEAP Course Suffix**

Y

**UCEAP Official Title**

INTEGRATED CAPSTONE EXPERIENCE

**UCEAP Transcript Title**

INTEGRATED CAPSTONE

**UCEAP Quarter Units**

10.00

**UCEAP Semester Units**

**Course Description**

Students are required to undertake a group design project that runs from September to April of the following year. The project topics are stipulated either by teachers or by industrial sponsors. Each project group has two teachers acting as supervisors and an additional teacher serving as moderator. During the course of the project, supervisors communicate with the students and the concerned project sponsor to monitor the project progress. At the completion of the project, each project student presents his/her achievements to the supervisors, moderator and sponsor via a written report and an oral presentation. This course aims to: (1) provide a problem-based learning experience for students to learn how to apply scientific knowledge and team-work approach to tackle design/engineering problems systematically, and (2) strengthen students' inter-personal and communication skills through interaction with teammates, supervisors and sponsors. Typical project activities include: problem identification & definition; research into information pertaining to the problem, design & analysis; materials sourcing; communication; conducting experiments/making prototypes for verification and demonstration of results; writing reports and giving oral presentations.

**Language(s) of Instruction**

English

**Host Institution Course Number**

MECH4429

**Host Institution Course Title**

INTEGRATED CAPSTONE EXPERIENCE

**Host Institution Campus****Host Institution Faculty****Host Institution Degree**

## Host Institution Department

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