

COURSE DETAIL

NATURE-INSPIRED INNOVATIONS

Country

Hong Kong

Host Institution

University of Hong Kong

Program(s)

University of Hong Kong

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Environmental Studies Bioengineering

UCEAP Course Number

138

UCEAP Course Suffix**UCEAP Official Title**

NATURE-INSPIRED INNOVATIONS

UCEAP Transcript Title

NATURE-INSP INNOV

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course is unique as it is co-organized by three faculties: Engineering, Medicine, and Science. This interdisciplinary collaboration highlights the importance of “biomimicry” and nature-inspired technologies that go beyond traditional disciplinary boundaries. Students in this course benefit from a comprehensive and diverse range of knowledge, merging insights from engineering, medicine, and science. By exploring how nature inspires technological advancements, students gain interdisciplinary skills and a broader perspective. The course is structured around three themes: industrial technology, biomedical technology, and environmental technology. Throughout this course, students learn to develop innovative ideas rooted in biomimicry to address real-world problems. Working in cross-faculty groups, students collaborate to design and build solutions that leverage the principles of biomimicry. This course equips students with the tools to contribute to sustainable and innovative technologies, preparing them for the challenges of the modern world.

Language(s) of Instruction

English

Host Institution Course Number

CCST9070

Host Institution Course Title

NATURE-INSPIRED INNOVATIONS

Host Institution Course Details

https://www4.hku.hk/pubunit/drcd/files/ugdr2025-26/All/Common_Core.pdf

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Common Core

Course Last Reviewed

2025-2026

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