

The Hong Kong University of Science and Technology
UG Course Syllabus ([Simplified version uploading to SENG website](#))

[Nature Engineering and DNA Nanotechnology]

[CENG 4510]

[3 Credits]

[Any pre-/co-requisites]: year 3 or year 4 students of Engineering or Science majored students

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Course Description

Science encompasses a broad range of subjects, including mathematics, physics, chemistry, and biology. As time has passed, the lines between these disciplines have become increasingly blurred. Engineering, on the other hand, utilizes science and mathematics to tackle real-world problems. As we enter a new era, there has been a rise in interdisciplinary subjects that combine science and engineering to provide a comprehensive view of the world. With this in mind, our goal is to develop an introductory course that integrates materials science and engineering, chemical engineering, thermodynamics, bioengineering, environmental engineering, and microelectronics. Through this course, we aim to cultivate our students' interest in the field of natural engineering.

Assessments:

[List specific assessed tasks, exams, quizzes, their weightage]

Assessment Task	Contribution to Overall Course grade (%)
Mid-Term	20%
In-course essay	15%
Reports and homeworks	15%
Final examination	50%

Required Texts and Materials

[Lecture notes, lecture PPTs, and some references that will be posted on canvas during ongoing classes]

[Optional] Additional Resources

[List any additional resources, such as online platforms, library resources, etc.]