



Faculty of Engineering

Faculty of Engineering The Chinese University of Hong Kong

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**Welcome to
CUHK Engineering!**



Presentation Outlines

- Introduction of the Faculty
- Highlights of Engineering Policies
- Language Exemption Policy
- Academic Advising
- Major Allocation (For Broad-based Engineering Students)
- ELITE Stream
- Academic Honesty



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Introduction of the Faculty



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CUHK Engineering

6 Academic Departments

- Biomedical Engineering (BME)
- Computer Science & Engineering (CSE)
- Electronic Engineering (EE)
- Information Engineering (IE)
- Mechanical & Automation Engineering (MAE)
- Systems Engineering & Engineering Management (SEEM)

10 Degree Programmes

Broad-based Engineering:

- Computer Engineering
- Computer Science
- Information Engineering
- Mathematics & Information Engineering
- Mechanical & Automation Engineering
- Systems Engineering & Engineering Management

Non Broad-based Engineering

Programmes:

- Biomedical Engineering
- Electronic Engineering
- Energy and Environmental Engineering
- Financial Technology



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CUHK Engineering

- **Broad-based** Engineering students are taken care of by the Faculty Office.
- Students admitted by **non Broad-based** Engineering programmes are taken care of by respective major departments.



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4-year Curriculum



4-year Curriculum – Overview

Free Electives: Remaining Units		
IT*		1 unit
Physical Education		2 units
Chinese >		6 units
English >		9 units
General Education		21 units
Major #		75 units (not for MIEG)

Total : 123 Units



4-year Curriculum – Major Requirements

Year 4

Research
Component
Courses
(6 units)

Major
Electives
(9 units)

Year 3

Major Electives
(12 units)

Year 2

Major Foundation
(18 units)

**Year 1
(Common)**

Faculty
Package
(9 units)

Faculty
Foundation
(21 units)

75 units
(Except MIEG
Programme)



Major Requirements – Faculty Package & Faculty Foundation

Faculty Package and Faculty Foundation Requirements	Units
1) Faculty Package: <ul style="list-style-type: none">•ENGG1100 Introduction to Engineering Design (3 units)•ENGG1110 Problem Solving by Programming (3 units)•ENGG1410 Linear Algebra and Vector Calculus for Engineers (3 units)	Yr. 1 courses 9
2a) Foundation Mathematics Courses: <ul style="list-style-type: none">•MATH1510 Calculus for Engineers (3 units)•ENGG2420 Complex Analysis and Differential Equations for Engineers / ENGG2440 Discrete Mathematics for Engineers (3 units)•ENGG2430 Probability and Statistics for Engineers / ENGG2450 Probability and Statistics for Engineers / ENGG2470 Probability for Engineers (3 units)	Yr. 1 courses 12 Yr. 2 courses



Major Requirements – Faculty Package & Faculty Foundation (For Broad-based Engineering Students)

Faculty Package and Faculty Foundation Requirements	Units
<p>2b) Foundation Science Courses: <u>At least 3 units must be a Physics course. The first Physics course will be pre-assigned for you based on your admission background.</u></p> <p>Physics Courses</p> <ul style="list-style-type: none"> •PHYS1003 General Physics for Engineers (3 units) •PHYS1110 Engineering Physics: Mechanics and Thermodynamics (3 units) •ENGG1310 Engineering Physics: Electromagnetics, Optics and Modern Physics (3 units) <p>Chemistry Courses</p> <ul style="list-style-type: none"> •CHEM1280 Introduction to Organic Chemistry and Biomolecules (3 units) •CHEM1380 Basic Chemistry for Engineers (3 units) <p>Life Science Courses</p> <ul style="list-style-type: none"> •LSCI1001 Basic Concepts in Biological Sciences (3 units) •LSCI1003 Life Sciences for Engineers (3 units) <p>Other Courses</p> <ul style="list-style-type: none"> •CSCI1120 Introduction to Computing Using C++ (3 units) •CSCI1130 Introduction to Computing Using Java (3 units) •IERG2060 Basic Analog and Digital Circuits (3 units) •SEEM2440 Engineering Economics (3 units) •SEEM2460 Introduction to Data Science (3 units) 	<p>9</p>

You need to register the second and third science courses by yourself !



Recommended Study Pattern

- Students from **Broad-based** Engineering can refer to the Guidebook.
- Students from **non Broad-based** Engineering programmes can consult their respective departments (consultation sessions held at the end).



Course Load

- A student shall take **at least 9 units** of courses and **no more than 18 units** of courses in any term within the normative study period except when s/he is on first or extended academic probation

Note: Approval has been sought for broad-based engineering students to take 19 units per term.

- A student shall take no more than 6 units of courses in each summer session, and **no student shall be allowed to take more than 39 units in an academic year**



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Highlights of Engineering Policies



Attendance Taking

- Applicable to Faculty Foundation courses, i.e. ENGG1100, ENGG1110, ENGG1310, ENGG1410, ENGG2420, ENGG2430, ENGG2440, ENGG2450, ENGG2470.
- At least 50% of roll-calls is required
- **Less than 50% of roll-calls will FAIL the whole course** regardless of academic performance
- The best strategy is to attend all classes! If you are not sure about your attendance, check with the teaching assistants or the course teachers.



Physics Placement Test

- Students **admitted WITH HKDSE results** (regardless of admission channel and programme of admission)
 - Pre-assigned to take **PHYS1110** according to the following HKDSE attainments:
 - ✓ **Mathematics (Compulsory Part) Level 4; AND**
 - ✓ **Physics (Full Subject) Level 4 OR Combined Science (with Physics Component) Level 5**
 - **For the rest**, students will be pre-assigned to take **PHYS1003**



Physics Placement Test

- Students **admitted WITHOUT HKDSE results** (regardless of admission channel and programme of admission)
 - Attend the Physics Placement Test
 - ❑ Date: 4 September 2018 (Tue)
 - ❑ Time: 9:30am – 10:15am
 - ❑ Venue: LSB LT1
 - **Fail or Absent** from the test will be pre-assigned to **PHYS1003**
 - **Pass** in the test will be pre-assigned to **PHYS1110**



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Physics Placement Test

- Before release of test results, students will be **pre-assigned to PHYS1110 first**
- Students who need to take the test will receive email from the Faculty Office



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Teaching Medium

- All courses offered by the Faculty of Engineering will be taught in English



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Language Exemption



Language Exemption by Attainment

- Students have to complete University Core Requirements including Chinese and English language courses in order to graduate
- Students who have already obtained a certain qualifications specified by the University **prior to their study at CUHK** shall **apply for exemption on their own in their first term of study.**
- Please visit Registration and Examinations Section website

<http://www.res.cuhk.edu.hk/en-gb/undergraduate-students/information-for-year-1-students/information-on-university-core-requirements-and-exemption/university-core-course-exemption-by-attainment>



- **Application Period: From 16 August to 31 December 2018**
- When exemption from a particular course is granted, students can **only be exempted from the course but not the units.**