



**Faculty of Engineering
The Chinese University of Hong Kong**

**Prof. Jimmy Lee
Associate Dean (Education)**

25 August 2020

Agenda

- 4-year Curriculum
- Highlights of Engineering Policies
- Language Exemption Policy
- Exemption of the 1-Unit IT Foundation Course
- Entrepreneurship and Innovation Minor Programme (EPIN)



4-year Curriculum

Guidebook

The Guidebook can be found at:

https://www.erg.cuhk.edu.hk/erg/sites/default/files/Guidebook_2020.pdf



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 Courses

Faculty Package	Units
1) Faculty Package: <ul style="list-style-type: none">•ENGG1110 Problem Solving by Programming (3 units)•ENGG1120 Linear Algebra for Engineers (3 units)•ENGG1130 Multivariable Calculus for Engineers (3 units)	Yr. 1 courses 9

Major Requirements – Faculty Package & Faculty Foundation Courses

Foundation Courses	Units
<p>2) Foundation Courses:</p> <ul style="list-style-type: none"> • AIST1110 Introduction to Computing using Python (3 units) • CHEM1280 Introduction to Organic Chemistry and Biomolecules (3 units) • CHEM1380 Basic Chemistry for Engineers (3 units) • CSCI1120 Introduction to Computing Using C++ (3 units) • CSCI1130 Introduction to Computing Using Java (3 units) • ELEG2700 Introduction to Electronic System Design (3 units) • ENGG1310 Engineering Physics: Electromagnetics, Optics and Modern Physics (3 units) • ENGG2440 Discrete Mathematics for Engineers (3 units) • ENGG2720 Complex Variables for Engineers (2 units) • ENGG2740 Differential Equations for Engineers (2 units) • ENGG2760 Probability for Engineers (2 units) • ENGG2780 Statistics for Engineers (2 units) • FTEC2101 Optimization Methods (3 units) • IERG2060 Basic Analog and Digital Circuits (3 units) • LSCI1001 Basic Concepts in Biological Sciences (3 units) • LSCI1003 Life Sciences for Engineers (3 units) • MAEG1020 Computational Design and Fabrication (3 units) • MATH1510 Calculus for Engineers (3 units) • PHYS1003 General Physics for Engineers (3 units) • PHYS1110 Engineering Physics: Mechanics and Thermodynamics (3 units) • SEEM2440 Engineering Economics (3 units) • SEEM2460 Introduction to Data Science (3 units) 	<p>Minimum 11</p>

Faculty Foundation Courses Selection & Recommended Study Pattern

- Students from **Broad-based** Engineering can refer to Pg. 12-13 of 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 during the first year.

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

The background of the slide features a close-up, slightly blurred image of school supplies. On the left, a yellow spiral-bound notebook is visible. To its right, a wooden ruler with black markings and numbers is laid out. A blue pencil is partially visible on the right side of the ruler. The overall image has a soft, warm glow.

Highlights of Engineering Policies

Engineering Policies

The background of the slide features a close-up, slightly blurred image of school supplies. On the left, a yellow spiral-bound notebook is visible. To its right, a wooden ruler with black markings and numbers is laid out. A blue pencil with a pink eraser is positioned diagonally across the ruler. The overall aesthetic is clean and educational.

1. Mathematics Placement Test
2. Physics Placement Test
3. Teaching Medium

Mathematics Placement Test

- The test was arranged online on 20 August 2020 (Thursday)
- Results are used to determine if one is required to take MATH1020
- JUPAS admittees without HKDSE Math M1/M2 will be assigned to take MATH1020 + MATH1510 by default. No test was arranged.
- Students who **were absent from the test** or **failed** the test **must take both MATH1020 and MATH1510** in Term 1, 2020-21
- Any student who passed the test can take MATH1510 alone

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: 3 September 2020 (Thursday)
 - ❑ Time: 2:00pm – 3:00pm
 - **Failure** in or **absence** from the test will be pre-assigned to **PHYS1003**
 - **Students attaining a Pass** in the test will be pre-assigned to **PHYS1110**

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

Teaching Medium

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

The background of the slide features a close-up, slightly blurred photograph of school supplies. On the left, a yellow spiral-bound notebook is visible. To its right, a wooden ruler with black markings and numbers is positioned diagonally. A blue pencil is partially visible on the right side of the ruler. The overall lighting is soft and warm, creating a gentle glow over the objects.

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 7 September to 31 December 2020**
- When exemption from a particular course is granted, students can **only be exempted from the course but not the units.**

The background of the slide features a close-up, slightly blurred image of school supplies. On the left, a yellow spiral-bound notebook is visible. To its right, a wooden ruler with black markings and numbers is positioned diagonally. A blue pencil is partially visible on the right side of the ruler. The overall image has a soft, warm glow.

ENGG1000 IT Foundation Course Exemption

Your Curriculum

Component	Subject	Unit
University Core	Chinese Language	6
	English Language	9
	General Education	21
	Information Technology	1
	Physical Education	2
Major	Faculty Package	
	Major Courses	

Exemption from Information Technology Foundation Course

Information
Technology

ENGG1000

IT Foundation

exempt
豁免

Engineering
Major
Programme
Requirements

...

...

Exemption from ENGG1000

- All newly admitted students will be exempted from ENGG1000 when they have successfully *fulfilled* the major programme requirements of *any* engineering programme.

ENGG1000

- What if I really want to take the course?
You should register the course at the IT Office
(YIA1207)
- Warning: The course is not about technical stuff! No significant advantage for engineering students.



Entrepreneurship and Innovation Minor Programme (EPIN)

CUHK students dare to be different. You are passionate to create and break new grounds. This is a platform to learn, practice and make things happen!



Since September 2017



Study Scheme of EPIN

● Minimum of 18 units of courses

(1) Required course: EPIN2010 Toolkit for Entrepreneurs (3 units)

(2) Elective courses:

- 3 to 6 units in Mindset & Values

- 6 to 12 units in Knowledge & Skills

- 3 to 6 units in Practices

(3) At least 6 units of courses at 3000 level or above



Structure of EPIN

- Students are required to complete **a minimum of 18 units** of courses. They are free to choose courses from 3 key areas:

Mindset & Values

- e.g. Anatomy of an Entrepreneur
- e.g. Design Thinking and Practice

Knowledge & Skills

- e.g. Business Models of Startups
- e.g. IP Law for Entrepreneurs

Practices

- e.g. Study Trip at Cambridge, Fudan, Tsinghua University
- e.g. Bootcamp, Practicum etc.



Interactive Learning Experience





Summer EPIN Experience @Cambridge University





FAQ

1. Who is eligible to take EPIN courses?

- ◎ ALL CUHK undergraduate students are welcome. Most of the courses do not have prerequisites.

2. I have studied some relevant courses elsewhere. Can I apply for course exemption?

- ◎ Yes, you can. EPIN office can help you with course equivalence or exemption application.

3. How can I fulfil the “practice” requirement?

- ◎ EPIN offers internship, study trips and many practical experiences. You can get the credits or apply for course exemption when you completed these experience.



FAQ

4. How to declare EPIN as minor?

- ◎ You can declare minor on CUSIS when you fulfilled most of the minor requirements or at your final year.

5. I am interested in minoring EPIN, but still don't find how to arrange my study plan, what should I do?

- ◎ Don't hesitate to contact EPIN office. EPIN are more than happy to work out a study plan with you.



CONTACT



www.facebook.com/CUHKEPIN/



3943 7152 / 3943 3224



epin@cuhk.edu.hk





Enjoy your study in Engineering