Faculty of Engineering
The Chinese University of Hong Kong

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Associate Dean (Education)

13 August 2024

4-year Curriculum

4-year Curriculum – Overview

Chinese	|	5 units
English	|	8 units
General Education	|	19 units
Digital Literacy and Computational Thinking	|	3 units
Physical Education	|	2 units
Understanding China	|	1 unit
Hong Kong in the Wider Constitutional Order	|	1 unit
# Except MIEG Major#	|	75 units
Free Electives: Remaining Units		

Total: 123 units

4-year Curriculum – Major Requirements

Year 4

Capstone Project	Major Electives

Year 3

Major Electives

Year 2

Major Foundation

Year 1

Faculty Package	Faculty Foundation

75 units
(Except MIEG Programme)

Major Requirements –
Faculty Package & Faculty Foundation Courses

Faculty Package (Except CDAS, MIEG Programmes)	Units
1) Faculty Package: •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

Foundation Courses (Except CDAS, MIEG Programmes)	Units
2) Foundation Courses: Science Courses (PHYS, CHEM, LSCI courses) Engineering Mathematics (ENGG, MATH courses) Engineering Major Related Courses (FTEC, MAEG, SEEM courses)	Minimum 11

Faculty Foundation Courses Selection & Recommended Study Pattern

- Each programme have its own requirements on the Faculty Foundation courses
- Students should consult their respective major departments for course selection recommendation

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

- 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**

Highlights of Engineering Policies

Engineering Teaching Arrangements

1. All students in Faculty of Engineering (except MIEG) have to take **MATH1510 (Calculus for Engineering)**

2. Some major programmes requires **PHYS1110 (Engineering Physics)** as their foundation courses

3. Mathematics Placement Test for **MATH1510**

4. Physics Placement Test for **PHYS1110/1003**

5. Teaching Medium

Mathematics Placement Test

- The test will be arranged on **15 August 2024 (This Thursday)** at **Lecture Theatre 1, Yasumoto International Academic Park**

- Results are used to determine if one is required to take MATH1020 (General Mathematics)

- Students who were absent from the test or failed the test must take both MATH1020 and MATH1510 in Term 1, 2023-24

- Any student who passed the test can take MATH1510 alone

- JUPAS students admitted without HKDSE M1/M2 are required to take both MATH1020 and MATH1510 and so, they are not invited for the test

Physics Placement Test

- Students admitted WITHOUT HKDSE results

    - ➢ The test will be arranged **online** on **16 August 2024 (This Friday)**

    - ➢ Failure in or absence from the test will be pre-assigned to PHYS1003

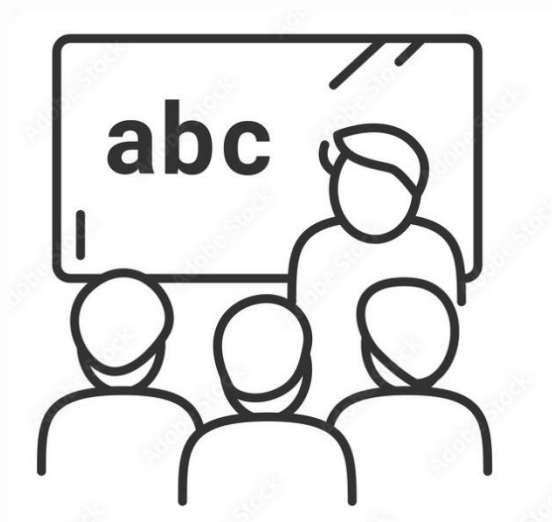   - ➢ Students attaining a Pass in the test will be pre-assigned to PHYS1110

    Before release of test results, students will be pre-assigned to PHYS1110 first

Physics Placement Test

- Students admitted WITH HKDSE results (regardless of admission channel)

  ➢ PHYS courses will be pre-assigned according to the HKDSE Mathematics and Physics results

  ➢ PHYS1110 will be preassigned for students with:

     i. Lv. 4 or above in Mathematics; and

     ii. Lv. 4 or above in Physics

  ➢ PHYS1003 will be pre-assigned for the rest

Teaching Medium

- All courses offered by the Faculty of Engineering

  will be taught in English (Lectures & Tutorials)

Language Exemption

University Language Requirement/Exemption

- **English Language: ELTU1001/1002, ELTU2014, ELTU3014**

- **Chinese Language: CHLT1001, CHLT1002**

- 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 Sec

  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 1 September 2024**

- When exemption from a particular course is granted, students can only be exempted from the course but <u>not</u> the units.

English Language Exemption by Attainment

• Exemption from ELTU1001 (Foundation English for University Studies)

Qualifications or Results in Admission Records	
HKDSE	Level 5* or 5** in English Language
HKALE	Grade A in Use of English
IB	Grade 5 or above in English A: Literature/ English A: Language and Literature (HL) Grade 6 or above in English B (HL) Grade 6 or above in English A: Literature/ English A: Language and Literature (SL)
AP	Grade 5 in English Language/ English Language and Composition/ English Literature and Composition
GCE (ASL)	Grade A in English Language (ASL)
Cambridge Pre-U	Grade D1, D2 or D3 in Literature in English
TOEFL	590 or above (Paper) or 243 or above (CBT) or 96 or above (IBT)

Chinese Language Exemption by Attainment

- Exemption from CHLT1001 and 1002 (University Chinese I & II)

Qualifications or Results in Admission Records	
HKDSE	Level 5** in Chinese Language
HKALE	Grade A in Chinese Language and Culture
IB	Grade 7 in Chinese A: Literature/ Chinese A: Language and Literature (HL)
AP	Grade 5 in Chinese Language and Culture
GCE (AL)	Grade A* in Chinese (AL)
Cambridge Pre-U	Grade D1 or D2 in Mandarin Chinese
National Higher Education Entrance Examination (Gao Kao)	130 marks or above (with 150 as the full marks) in Chinese Language
Department Required Test (Taiwan)	70 marks or above (with 100 as the full marks) in Chinese

Students exempted from CHLT1001 and CHLT1002 are required to take 2 units of specific language enhancement courses to fulfill the overall units required for graduation.

Digital Literacy and Computational Thinking

ENGG1003 & 1004

- Introductory level course on digital literacy and computational thinking

- ENGG1003 – Techniques for solving problem with data (e.g., automation, textual analysis, data visualization, etc.)

- ENGG1004 – Techniques for solving problems with quantitative data (e.g., automation, curve fitting, classification, clustering, etc.)

- Each programme has its own requirement (ENGG1003 or 1004)

- Pre-assigned to take in Year 1 Term 1

Enjoy your study in Engineering