



Faculty of Engineering

Faculty of Engineering The Chinese University of Hong Kong

**Prof. Jonathan Choi
Assistant Dean (Student Affairs)**

9 August 2019



Faculty of Engineering

**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



Faculty of Engineering

Introduction of the Faculty



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)

11 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:

- Artificial Intelligence: Systems and Technologies
- Biomedical Engineering
- Electronic Engineering
- Energy and Environmental Engineering
- Financial Technology



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.



Faculty of Engineering

4-year Curriculum



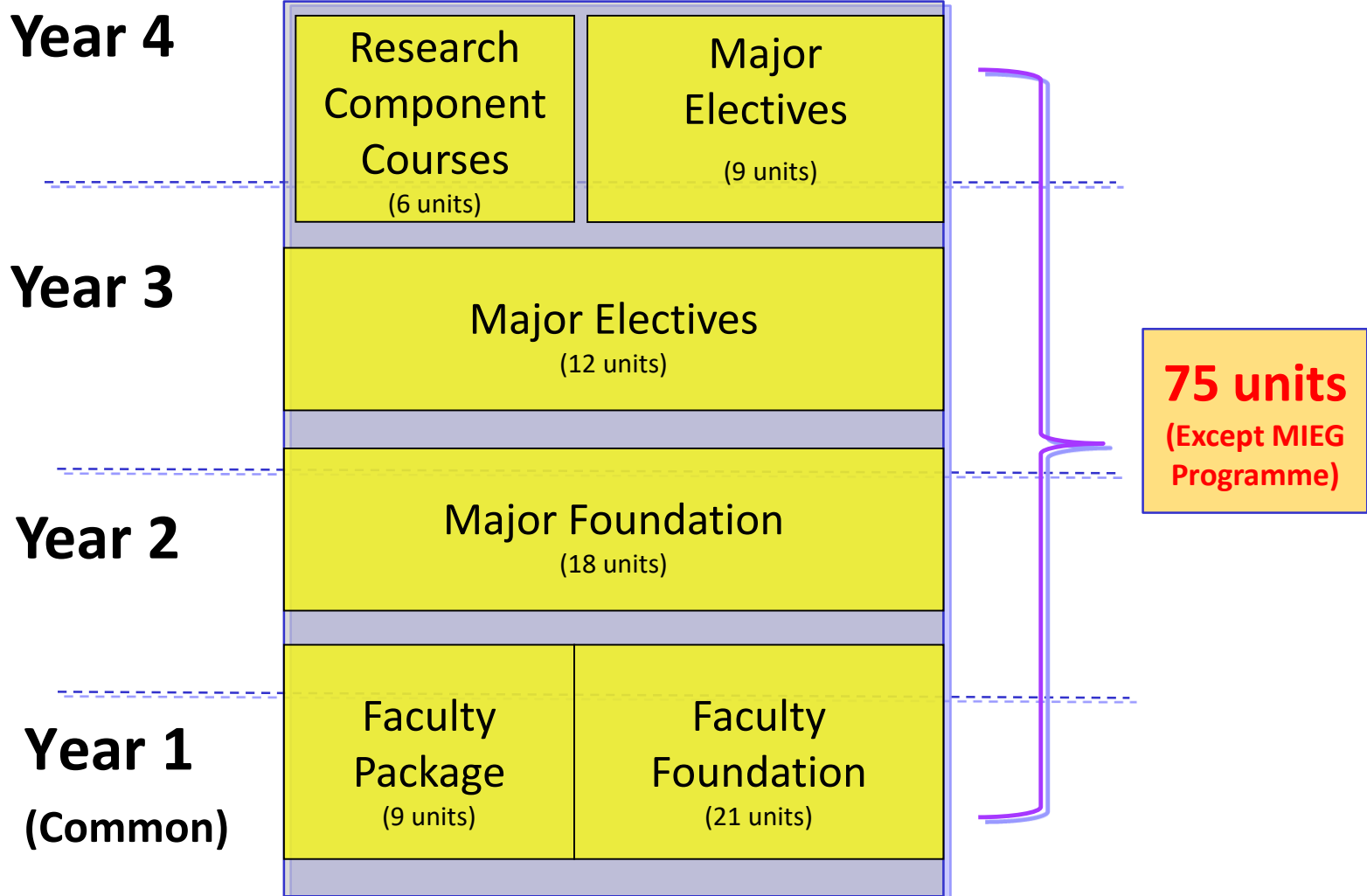
4-year Curriculum – Overview

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



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 shall be allowed to take more than 39 units in an academic year**



Faculty of Engineering

Highlights of Engineering Policies



Engineering Policies

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



Mathematics Placement Test

Date: 13 August 2019 (Tuesday)

Time: 11:30 am – 12:30 pm

(Please arrive at 10:30am for test registration)

Venue: Lecture Theatres 1, Yasumoto International Academic Park



Mathematics Placement Test

- All MUST attend! Unless you are JUPAS admittees without HKDSE Math M1/M2.
- JUPAS admitees without HKDSE Math M1/M2 will be assigned to take MATH 1020 + MATH1510 by default. No test will be arranged.

Mathematics Placement Test

- Results are used to determine eligibility for enrollment in MATH1510
- Any student who **is absent from the test** or **fails the test** **must take both MATH1020 and MATH1510** in Term 1, 2019-20
- Any student who passes the test can take MATH1510 alone





Mathematics Placement Test

- Duration: 60 minutes
- 30 MC Questions, 3 marks each
- Calculators are NOT permitted
- **Bring your Hong Kong Identity Card or Passport for identity verification**
- **Please get your JUPAS / Non-JUPAS application number ready as you may be asked by the Mathematics Department to put down such number on your test paper**



Mathematics Placement Test

Make-up test will only be provided when full and valid documents are provided in connection with:

- Hospitalization of the student
- Major illness of the student
- Death of immediate family members



Mathematics Placement Test

Application for make-up test:

- Send email to math1510@math.cuhk.edu.hk with a written explanation of your absence (with full documents) **on or before 14 August 2019 (Wednesday)**.
- No late request or request without explanation/supporting documents will be considered



Mathematics Placement Test

Content:

- Functions
- Trigonometry
- Sequence, Series and Power Series
- Vectors
- Probability

For details of the scopes, please refer to the information sheets given to you. Same information has been posted in the Faculty website.



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 2019 (Tue)
 - ❑ Time: 8:30am – 9:15am
 - ❑ Venue: To be announced
 - **Fail or Absent** from the test will be pre-assigned to **PHYS1003**
 - **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



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 15 August to 31 December 2019**
- When exemption from a particular course is granted, students can **only be exempted from the course but not the units.**

