Faculty of Engineering
The Chinese University of Hong Kong

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Assistant Dean (Student Affairs)
9 August 2019
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
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.
4-year Curriculum
4-year Curriculum – Overview

- 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 1
(Common)

Year 2

Year 3

Year 4

Faculty Package (9 units)

Faculty Foundation (21 units)

Research Component Courses (6 units)

Major Electives (9 units)

Major Electives (12 units)

Major Foundation (18 units)

75 units (Except MIEG Programme)
## Major Requirements – Faculty Package & Faculty Foundation Courses

<table>
<thead>
<tr>
<th>Faculty Package</th>
<th>Units</th>
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<tbody>
<tr>
<td>1) Faculty Package:</td>
<td>Yr. 1 courses</td>
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<tr>
<td>• ENGG1110 Problem Solving by Programming (3 units)</td>
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<tr>
<td>• ENGG1120 Linear Algebra for Engineers (3 units)</td>
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<tr>
<td>• ENGG1130 Multivariable Calculus for Engineers (3 units)</td>
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Major Requirements – Faculty Package & Faculty Foundation Courses

<table>
<thead>
<tr>
<th>Foundation Courses</th>
<th>Units</th>
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<tr>
<td><strong>2) Foundation Courses:</strong></td>
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<tr>
<td>• AIST1110 Introduction to Computing using Python (3 units)</td>
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<tr>
<td>• CHEM1280 Introduction to Organic Chemistry and Biomolecules (3 units)</td>
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<tr>
<td>• CHEM1380 Basic Chemistry for Engineers (3 units)</td>
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<tr>
<td>• CSCI1120 Introduction to Computing Using C++ (3 units)</td>
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<tr>
<td>• CSCI1130 Introduction to Computing Using Java (3 units)</td>
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<tr>
<td>• ELEG2700 Introduction to Electronic System Design (3 units)</td>
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<tr>
<td>• ENGG1310 Engineering Physics: Electromagnetics, Optics and Modern Physics (3 units)</td>
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<tr>
<td>• ENGG2440 Discrete Mathematics for Engineers (3 units)</td>
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<tr>
<td>• ENGG2720 Complex Variables for Engineers (2 units)</td>
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<tr>
<td>• ENGG2740 Differential Equations for Engineers (2 units)</td>
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<tr>
<td>• ENGG2760 Probability for Engineers (2 units)</td>
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<tr>
<td>• ENGG2780 Statistics for Engineers (2 units)</td>
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<tr>
<td>• FTEC2101 Optimization Methods (3 units)</td>
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<tr>
<td>• IERG2060 Basic Analog and Digital Circuits (3 units)</td>
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<tr>
<td>• LSCI1001 Basic Concepts in Biological Sciences (3 units)</td>
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<td>• LSCI1003 Life Sciences for Engineers (3 units)</td>
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<tr>
<td>• MAEG1020 Computational Design and Fabrication (3 units)</td>
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<tr>
<td>• MATH1510 Calculus for Engineers (3 units)</td>
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<tr>
<td>• PHYS1003 General Physics for Engineers (3 units)</td>
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<tr>
<td>• PHYS1110 Engineering Physics: Mechanics and Thermodynamics (3 units)</td>
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<tr>
<td>• SEEM2440 Engineering Economics (3 units)</td>
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<tr>
<td>• SEEM2460 Introduction to Data Science (3 units)</td>
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Minimum 11
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
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 10:30 am 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 admittees 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.


- 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.