Faculty of Engineering
The Chinese University of Hong Kong

Prof. Anthony So
Associate Dean (Student Affairs)
10 August 2018
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)

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
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

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)
## Faculty Package and Faculty Foundation Requirements

### 1) Faculty Package:
- ENGG1100 Introduction to Engineering Design (3 units)
- ENGG1110 Problem Solving by Programming (3 units)
- ENGG1410 Linear Algebra and Vector Calculus for Engineers (3 units)

<table>
<thead>
<tr>
<th>Units</th>
<th>Yr. 1 courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

### 2a) Foundation Mathematics Courses:
- 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)

<table>
<thead>
<tr>
<th>Units</th>
<th>Yr. 1 courses</th>
<th>Yr. 2 courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Major Requirements – Faculty Package & Faculty Foundation
(For Broad-based Engineering Students)

<table>
<thead>
<tr>
<th>Faculty Package and Faculty Foundation Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2b) Foundation Science Courses:</strong></td>
<td></td>
</tr>
<tr>
<td>At least 3 units must be a Physics course. The first Physics course will be pre-assigned for you based on your admission background.</td>
<td></td>
</tr>
</tbody>
</table>

**Physics Courses**
- 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)

**Chemistry Courses**
- CHEM1280 Introduction to Organic Chemistry and Biomolecules (3 units)
- CHEM1380 Basic Chemistry for Engineers (3 units)

**Life Science Courses**
- LSCI1001 Basic Concepts in Biological Sciences (3 units)
- LSCI1003 Life Sciences for Engineers (3 units)

**Other Courses**
- 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)

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**.
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
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 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.