

# ESE-2018-4YR

## CITY UNIVERSITY OF HONG KONG School of Energy and Environment

Bachelor of Engineering in Energy Science and Engineering  
Recommended Study Plan (for 2018 cohort with normative 4-year degree)

- List of 3 School-specified courses:  
(1) SEE1003 Introduction to Sustainable Energy and Environmental Engineering  
(2) SEE3002 Energy and Environmental Economics  
(3) MNE2016 Engineering Graphics

### YEAR 1

| <u>Semester A</u>                            |  | <u>CU</u> s | <u>Semester B</u>                       |  | <u>CU</u> s |
|--|--|-------------|---|--|-------------|
| MA1200 /                                     | Calculus and Basic Linear Algebra I /  | 3           | MA1201 /                                | Calculus and Basic Linear Algebra II /                           | 3           |
| MA1300                                       | Enhanced Calculus and Linear Algebra I |             | MA1301                                  | Enhanced Calculus and Linear Algebra II                          |             |
| BCH1100                                      | Chemistry                              | 3           | PHY1201                                 | General Physics I  | 3           |
| BCH1200                                      | Discovery in Biology                   | 3           | SEE1002                                 | Introduction to Computing for Energy and Environment             | 3           |
| GE1401                                       | University English                     | 3           | SEE1003                                 | Introduction to Sustainable Energy and Environmental Engineering | 3           |
| GE Courses (Distributional Requirements) x 2 |  | 3           | GE2410                                  | English for Engineering  | 3           |
|  |  | 3           | GE Course (Distributional Requirements) |  | 3           |
| <b>Total: 18</b>                             |  |             | <b>Total: 18</b>                        |  |             |

### YEAR 2

| <u>Semester A</u> |  | <u>CU</u> s | <u>Semester B</u>                       |   | <u>CU</u> s |
|-------------------|--|-------------|---|---|-------------|
| MNE2016           | Engineering Graphics                                     | 3           | MA2181                                  | Mathematical Methods for Engineering      | 3           |
| SEE2001           | Electromagnetic Principles for Energy Engineers          | 3           | SEE2101                                 | Engineering Thermofluids I                | 3           |
| SEE2002           | Chemical Sciences for Energy and Environmental Engineers | 4           | SEE2201                                 | Fundamentals of Environmental Engineering | 3           |
| SEE2003           | Introduction to Energy and Environmental Data Analysis   | 3           | GE Course (Distributional Requirements) |   | 3           |
| GE1501            | Chinese Civilisation - History and Philosophy            | 3           |   |   |             |
| <b>Total: 16</b>  |  |             | <b>Total: 12</b>                        |   |             |

### YEAR 3

| <u>Semester A</u> |                                    | <u>CU</u> s | <u>Semester B</u> |  | <u>CU</u> s |
|-------------------|------------------------------------|-------------|-------------------|--|-------------|
| SEE3002           | Energy and Environmental Economics | 3           | SEE3001           | Energy and Environmental Policy            | 3           |
| SEE3101           | Engineering Thermofluids II        | 4           | SEE3003           | Climate Change and Adaptation Strategies   | 3           |
| SEE3102           | Power Plant Engineering            | 3           | SEE3104           | Sustainable and Renewable Energy           | 3           |
| SEE3103           | Energy Efficiency for Buildings    | 3           | SEE4001           | Engineers in Society                       | 1           |
| SEEM4024          | Project Management                 | 3           | SEE4217           | Waste and Wastewater Treatment Engineering | 3           |
| <b>Total: 16</b>  |                                    |             | <b>Total: 13</b>  |  |             |

### YEAR 4

| <u>Semester A</u>   |   | <u>CU</u> s | <u>Semester B</u>   |   | <u>CU</u> s |
|---------------------|---|-------------|---------------------|---|-------------|
| SEE4003             | Energy and Environmental Engineering Laboratory         | 3           | SEE4004             | Environmental Impact Assessment for Sustainable Development | 4           |
| SEE4112             | Sustainable Engineering Systems: Modelling and Analysis | 3           | SEE4997             | Final Year Project  | 3           |
| SEE4997             | Final Year Project                                      | 3           | Major Electives x 2 |   | 3           |
| Major Electives x 2 |   | 3           |                     |   | 3           |
|                     |   | 3           |                     |   |             |
| <b>Total: 15</b>    |   |             | <b>Total: 13</b>    |   |             |