

EVE-2020-4YR

CITY UNIVERSITY OF HONG KONG School of Energy and Environment

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

Bachelor of Engineering in Environmental Science and Engineering Recommended Study Plan (for 2020 cohort with normative 4-year degree)

YEAR 1

| <u>Semester A</u> | | <u>CUs</u> | <u>Semester B</u> | | <u>CUs</u> |
|--|---|------------|---|---|------------|
| MA1200 / MA1300 | Calculus and Basic Linear Algebra I / Enhanced Calculus and Linear Algebra I | 3 | MA1201 / MA1301 | Calculus and Basic Linear Algebra II / Enhanced Calculus and Linear Algebra II | 3 |
| CHEM1200 | Discovery in Biology | 3 | PHY1201 | General Physics I | 3 |
| CHEM1300 | Principles of General Chemistry | 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 |
| Total: 18 | | | Total: 18 | | |

YEAR 2

| <u>Semester A</u> | | <u>CUs</u> | <u>Semester B</u> | | <u>CUs</u> |
|-------------------|---|------------|-------------------|---|------------|
| MNE2016 | Engineering Graphics | 3 | CHEM2004 | Principles of Analytical Chemistry | 4 |
| SEE2002 | Chemical Sciences for Energy and Environmental Engineers | 4 | MA2181 | Mathematical Methods for Engineering | 3 |
| SEE2003 | Introduction to Energy and Environmental Data Analysis | 3 | SEE2101 | Engineering Thermofluids I | 3 |
| SEE2203 | Environmental, Safety, and Occupational Health Management | 3 | SEE2201 | Fundamentals of Environmental Engineering | 3 |
| GE1501 | Chinese Civilisation - History and Philosophy | 3 | SEE2204 | Principles of Sustainability | 3 |
| Total: 16 | | | Total: 16 | | |

YEAR 3

| <u>Semester A</u> | | <u>CUs</u> | <u>Semester B</u> | | <u>CUs</u> |
|-------------------|--------------------------------------|------------|-------------------|--|------------|
| ADSE4024 | Project Management | 3 | SEE3003 | Climate Change and Adaptation Strategies | 3 |
| SEE3002 | Energy and Environmental Economics | 3 | SEE3203 | Air Pollution | 3 |
| SEE3101 | Engineering Thermofluids II | 4 | SEE4001 | Engineers in Society | 1 |
| SEE4218 | Water and Water Resource Engineering | 3 | SEE4204 | Environmental Systems Modelling | 3 |
| | | | SEE4217 | Waste and Wastewater Treatment Engineering | 3 |
| Total: 13 | | | Total: 13 | | |

YEAR 4

| <u>Semester A</u> | | <u>CUs</u> | <u>Semester B</u> | | <u>CUs</u> |
|---|--------------------------------------|------------|-------------------|--|------------|
| SEE4002 | Environmental Engineering Laboratory | 3 | SEE4004 | Environmental Impact Assessment for Sustainable Development | 4 |
| SEE4996 | Final Year Project | 3 | SEE4203 | Advanced Treatment and Management of Solid and Municipal Waste | 3 |
| Major Electives x 2 | | 6 - 8 | SEE4996 | Final Year Project | 3 |
| GE Course (Distributional Requirements) | | 3 | Major Elective | | 3 - 4 |
| Total: 15 - 17 | | | Total: 13 - 14 | | |

IMPORTANT NOTES re. SEE2000 Professional Development I and SEE4000 Professional Development II:

By the time SEE students graduate, they must have successfully completed *SEE2000 Professional Development I* and *SEE4000 Professional Development II*, namely **8-hour Career Training Workshops arranged by SEE** plus **160-hour Professional Development experience recognized by SEE**. For details, please refer to the School website at <https://www.cityu.edu.hk/see> >> Programmes >> Undergraduate Programmes.

EVE-2020-4YR-BSS

CITY UNIVERSITY OF HONG KONG

School of Energy and Environment

Bachelor of Engineering in Environmental Science and Engineering

Recommended Study Plan (for 2020 cohort with normative 4-year degree taking BSS discipline)

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

YEAR 1

| Semester A | | CU _s | Semester B | | CU _s |
|--|---|-----------------|---|---|-----------------|
| MA1200 / MA1300 | Calculus and Basic Linear Algebra I / Enhanced Calculus and Linear Algebra I | 3 | MA1201 / MA1301 | Calculus and Basic Linear Algebra II / Enhanced Calculus and Linear Algebra II | 3 |
| CHEM1200 | Discovery in Biology | 3 | PHY1201 | General Physics I | 3 |
| CHEM1300 | Principles of General Chemistry | 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 |
| Total: 18 | | | Total: 18 | | |

YEAR 2

| Semester A | | CU _s | Semester B | | CU _s |
|------------------|---|-----------------|------------------|---|-----------------|
| MNE2016 | Engineering Graphics | 3 | CHEM2004 | Principles of Analytical Chemistry | 4 |
| SEE2001 | Electromagnetic Principles for Energy Engineers | 3 | MA2181 | Mathematical Methods for Engineering | 3 |
| SEE2002 | Chemical Sciences for Energy and Environmental Engineers | 4 | SEE2101 | Engineering Thermofluids I | 3 |
| SEE2003 | Introduction to Energy and Environmental Data Analysis | 3 | SEE2201 | Fundamentals of Environmental Engineering | 3 |
| SEE2203 | Environmental, Safety, and Occupational Health Management | 3 | SEE2204 | Principles of Sustainability | 3 |
| GE1501 | Chinese Civilisation - History and Philosophy | 3 | | | |
| Total: 19 | | | Total: 16 | | |

YEAR 3

| Semester A | | CU _s | Semester B | | CU _s |
|------------------|--------------------------------------|-----------------|---|--|-----------------|
| CA3712 | Electrical Services | 3 | SEE3003 | Climate Change and Adaptation Strategies | 3 |
| CA3732 | Fire Engineering and Piped Services | 3 | SEE3203 | Air Pollution | 3 |
| SEE3002 | Energy and Environmental Economics | 3 | SEE4001 | Engineers in Society | 1 |
| SEE3101 | Engineering Thermofluids II | 4 | SEE4204 | Environmental Systems Modelling | 3 |
| SEE3103 | Energy Efficiency for Buildings | 3 | SEE4217 | Waste and Wastewater Treatment Engineering | 3 |
| SEE4218 | Water and Water Resource Engineering | 3 | Major Elective | | 3 - 4 |
| | | | GE Course (Distributional Requirements) | | 3 |
| Total: 19 | | | Total: 19 - 20 | | |

YEAR 4

| Semester A | | CU _s | Semester B | | CU _s |
|-----------------------|--------------------------------------|-----------------|-----------------------|--|-----------------|
| ADSE4024 | Project Management | 3 | CA4718 | Power Electronics and Smart Lighting Controls | 3 |
| CA3722 | HVAC Engineering | 3 | SEE4004 | Environmental Impact Assessment for Sustainable Development | 4 |
| CA4737 | Fire Science and Modelling | 3 | SEE4203 | Advanced Treatment and Management of Solid and Municipal Waste | 3 |
| SEE4002 | Environmental Engineering Laboratory | 3 | SEE4996 | Final Year Project | 3 |
| SEE4996 | Final Year Project | 3 | Major Elective | | 3 - 4 |
| Major Elective | | 3 - 4 | | | |
| Total: 18 - 19 | | | Total: 16 - 17 | | |

IMPORTANT NOTES re. SEE2000 Professional Development I and SEE4000 Professional Development II:

By the time SEE students graduate, they must have successfully completed *SEE2000 Professional Development I* and *SEE4000 Professional Development II*, namely **8-hour Career Training Workshops arranged by SEE** plus **160-hour Professional Development experience recognized by SEE**. For details, please refer to the School website at <https://www.cityu.edu.hk/see> >> Programmes >> Undergraduate Programmes.