

# EVE-2023-4YR

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

### Bachelor of Engineering in Environmental Science and Engineering Recommended Study Plan (for 2023 cohort with normative 4-year degree)

List of 3 School-specified courses:  
(1) CA1167 Engineering Communication  
(2) SEE1003 Introduction to Sustainable Energy and Environmental Engineering  
(3) SEE3002 Energy and Environmental Economics

#### YEAR 1

<u>Semester A</u>		<u>CUs</u>	<u>Semester B</u>		<u>CUs</u>	
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		
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	
SEE1003	Introduction to Sustainable Energy and Environmental Engineering	3	GE2410	English for Engineering	3	
GE1401	University English	3	GE Courses (Distributional Requirements) x 2		3	
GE Course (Distributional Requirements)		3				3
Total: 18			Total: 18			

#### YEAR 2

<u>Semester A</u>			<u>CUs</u>	<u>Semester B</u>			<u>CUs</u>
SEE2000	Professional Development I		0	CA1167	Engineering Communication		3
SEE2002	Chemical Sciences for Energy and Environmental Engineers		4	CHEM2004	Principles of Analytical Chemistry		4
SEE2003	Introduction to Energy and Environmental Data Analysis		3	MA2181	Mathematical Methods for Engineering		3
SEE2203	Environmental, Safety, and Occupational Health Management		3	SEE2101	Engineering Thermofluids I		3
SEE2204	Principles of Sustainability		3	SEE2201	Fundamentals of Environmental Engineering		3
GE1501	Chinese Civilisation - History and Philosophy		3				
			Total: 16	Total: 16			

#### YEAR 3

Semester A			CUs	Semester B			CUs
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

Semester A		CUs	Semester B		CUs
SEE4002	Environmental Engineering Laboratory	3	SEE4004	Environmental Impact Assessment for Sustainable Development	4
SEE4996	Final Year Project	3	SEE4996	Final Year Project	3
Major Electives x 2		6 - 8	Major Electives x 2		6 - 8
GE Course (Distributional Requirements)		3			
		Total: 15 - 17	Total: 13 - 15		

#### **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-2023-4YR-BSS

## CITY UNIVERSITY OF HONG KONG

### School of Energy and Environment

#### Bachelor of Engineering in Environmental Science and Engineering

#### Recommended Study Plan (for 2023 cohort with normative 4-year degree taking BSS discipline)

List of 3 School-specified courses:

- (1) CA1167 Engineering Communication
- (2) SEE1003 Introduction to Sustainable Energy and Environmental Engineering
- (3) SEE3002 Energy and Environmental Economics

#### YEAR 1

Semester A	CU	Semester B	CU
MA1200 / Calculus and Basic Linear Algebra I / MA1300 Enhanced Calculus and Linear Algebra I	3	MA1201 / Calculus and Basic Linear Algebra II / MA1301 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
SEE1003 Introduction to Sustainable Energy and Environmental Engineering	3	GE2410 English for Engineering	3
GE1401 University English	3	GE Courses (Distributional Requirements) x 2	3
GE Course (Distributional Requirements)	3		3
Total: 18		Total: 18	

#### YEAR 2

Semester A	CU	Semester B	CU
SEE2000 Professional Development I	0	CA1167 Engineering Communication	3
SEE2001 Electromagnetic Principles for Energy Engineers	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
SEE2204 Principles of Sustainability	3		
GE1501 Chinese Civilisation - History and Philosophy	3		
Total: 19		Total: 16	

#### YEAR 3

Semester A	CU	Semester B	CU
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	Semester B	CU
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	SEE4996 Final Year Project	3
SEE4002 Environmental Engineering Laboratory	3	Major Electives x 2	6 - 8
SEE4996 Final Year Project	3		
Major Elective	3 - 4		
Total: 18 - 19		Total: 16 - 18	

#### 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.