ESE-2022-4YR

CITY UNIVERSITY OF HONG KONG School of Energy and Environment

Bachelor of Engineering in Energy Science and Engineering
Recommended Study Plan (for 2022 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					
Semester A		<u>CUs</u>	Semester B		<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	3	MA1301	Enhanced Calculus and Linear Algebra II	<u> </u>
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
	Т	Total: 18			Total: 18
YEAR 2					
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>
SEE2000	Professional Development I	0	CA1167	Engineering Communication	3
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
GE1501	Chinese Civilisation - History and Philosophy	3	GE Course ((Distributional Requirements)	3
	Т	Total: 13			Total: 15
YEAR 3					
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>
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
SYE4024	Project Management	3	SEE4217	Waste and Wastewater Treatment Engineering	3
	Т	Total: 16			Total: 13
YEAR 4					
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>
SEE4003	Energy and Environmental Engineering Laboratory	3	SEE4004	Environmental Impact Assessment for Sustainable Development	
SEE4112	Sustainable Engineering Systems: Modelling and Analysis	3	SEE4997	Final Year Project	3
SEE4997	Final Year Project	3	Major Electi	ives x 2	3
Major Electives x 2		3			3
		3			
	T	Total: 15			Total: 13

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.

ESE-2022-4YR-BSS

CITY UNIVERSITY OF HONG KONG School of Energy and Environment

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

Bachelor of Engineering in Energy Science and Engineering
Recommended Study Plan (for 2022 cohort with normative 4-year degree taking BSS discipline

YEAR 1				(3) SEE3002 Energy and Environ	innental Leonomies
Semester A		<u>CUs</u>	Semester B		CUs
MA1200 /	Calculus and Basic Linear Algebra I /	2	MA1201 /	Calculus and Basic Linear Algebra II /	2
MA1300	Enhanced Calculus and Linear Algebra I	3	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	g 3	GE2410	English for Engineering	3
GE1401	University English	3	GE Courses	(Distributional Requirements) x 2	3
GE Course (Distributional Requirements) 3		3	1		3
		Total: 18			Total: 18
YEAR 2			•		
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>
SEE2000	Professional Development I	0	CA1167	Engineering Communication	3
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
GE1501	Chinese Civilisation - History and Philosophy	3	GE Course (Distributional Requirements)	3
		Total: 13		•	Total: 15
YEAR 3			•		
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>
CA3712	Electrical Services	3	SEE3001	Energy and Environmental Policy	3
CA3732	Fire Engineering and Piped Services	3	SEE3003	Climate Change and Adaptation Strategies	3
SEE3002	Energy and Environmental Economics	3	SEE3104	Sustainable and Renewable Energy	3
SEE3101	Engineering Thermofluids II	4	SEE4001	Engineers in Society	1
SEE3102	Power Plant Engineering	3	SEE4217	Waste and Wastewater Treatment Engineering	3
SEE3103	Energy Efficiency for Buildings	3	<mark>Major Electi</mark>	ves x 2	3
					3
		Total: <mark>19</mark>			Total: 19
YEAR 4			•		
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>
CA3722	HVAC Engineering	3	CA4718	Power Electronics and Smart Lighting Controls	3
CA4737	Fire Science and Modelling	3	SEE4004	Environmental Impact Assessment for Sustainable Developmen	t 4
SEE4003	Energy and Environmental Engineering Laboratory	3	SEE4997	Final Year Project	3
SEE4112	Sustainable Engineering Systems: Modelling and Analysis	3	Major Electi	ves x 2	3
SEE4997	Final Year Project	3			3
SYE4024	Project Management	3			
		Total: 18			Total: 16

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 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.