ESE-2020-4YR

CITY UNIVERSITY OF HONG KONG School of Energy and Environment

<u>Bachelor of Engineering in Energy Science and Engineering</u> Recommended Study Plan (for 2020 cohort with normative 4-year degree) 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

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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			
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	O3 Introduction to Sustainable Energy and Environmental Engineering		
GE Courses (Distributional Requirements) x 2		3	GE2410	English for Engineering	3	
		3	GE Course (3		
		Total: 18			Total: 18	
YEAR 2						
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>	
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 (3		
GE1501	Chinese Civilisation - History and Philosophy	3				
		Total: 16			Total: 12	
YEAR 3						
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>	
ADSE4024	Project Management	3	SEE3001	Energy and Environmental Policy	3	
SEE3002	Energy and Environmental Economics	3	SEE3003	Climate Change and Adaptation Strategies	3	
SEE3101	Engineering Thermofluids II	4	SEE3104	Sustainable and Renewable Energy	3	
SEE3102	Power Plant Engineering	3	SEE4001	Engineers in Society	1	
SEE3103	Energy Efficiency for Buildings	3	SEE4217	Waste and Wastewater Treatment Engineering	3	
		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	4	
SEE4112	Sustainable Engineering Systems: Modelling and Analysis	3	SEE4997	7 Final Year Project		
SEE4997	Final Year Project	3	Major Elect	ives x 2	3	
Major Electives x 2		3			3	
-		3				
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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, 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.

Total: **15**

Total: 13

ESE-2020-4YR-BSS

CITY UNIVERSITY OF HONG KONG

School of Energy and Environment

Bachelor of Engineering in Energy 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	Recommended Study Fram (101 2020 Conor	t with normativ	e i year deg	Lee taking bob discipline)	(3) SEE3002 Energy and Environ	mental Economics
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>	
MA1200 /	Calculus and Basic Linear Algebra I /	2	MA1201 /	Calculus and Basic Linear Alge	2	
MA1300	Enhanced Calculus and Linear Algebra I	3	MA1301	Enhanced Calculus and Linear	3	
CHEM1200	Discovery in Biology	3	PHY1201	General Physics I		3
CHEM1300	Principles of General Chemistry	3	SEE1002	Introduction to Computing for	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		<u>CUs</u>	Semester B		CUs	
MNE2016	Engineering Graphics	3	MA2181	Mathematical Methods for Eng	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 (Course (Distributional Requirements)		
GE1501	Chinese Civilisation - History and Philosophy	3				
		Total: 16				Total: 12
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>	Major Electives x 2		3
						3
		Total: 19				Total: 19
YEAR 4						
Semester A		<u>CUs</u>	Semester B			<u>CUs</u>
ADSE4024	Project Management	3	CA4718	Power Electronics and Smart L	ighting Controls	3
CA3722	HVAC Engineering	3	SEE4004	Environmental Impact Assessm	nent for Sustainable Development	4
CA4737	Fire Science and Modelling	3	SEE4997	Final Year Project		3
SEE4003	Energy and Environmental Engineering Laboratory	3	Major Electi	Major Electives x 2		
SEE4112	Sustainable Engineering Systems: Modelling and Analysis	3				3
SEE4997	Final Year Project	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 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.