

Bachelor of Engineering in Energy Science and Engineering Recommended Study Plan (for 2020 cohort with Advanced Standing I)

YEAR 2

<u>Semester A</u>		<u>CUs</u>	<u>Semester B</u>		<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
GE1501	Chinese Civilisation - History and Philosophy	3	GE2410	English for Engineering	3
GE1401	University English	3	GE Courses (Distributional Requirements) x 2		3
					3
		Total: 16			Total: 18

YEAR 3

<u>Semester A</u>		<u>CUs</u>	<u>Semester B</u>		<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
SEEM4024	Project Management	3	SEE4217	Waste and Wastewater Treatment Engineering	3
		Total: 16			Total: 13

YEAR 4

<u>Semester A</u>		<u>CUs</u>	<u>Semester B</u>		<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	Final Year Project	3
SEE4997	Final Year Project	3	Major Electives x 2		3
Major Electives x 2		3			3
		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-2020-ASI-SemB(3Y)

CITY UNIVERSITY OF HONG KONG School of Energy and Environment

List of 2 School-specified courses:
(1) CA1167 Engineering Communication
(2) SEE3002 Energy and Environmental Economics

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YEAR 2					
<u>Semester B</u>			<u>CUs</u>		
MA2181	Mathematical Methods for Engineering		3		
SEE2101	Engineering Thermofluids I		3		
SEE2201	Fundamentals of Environmental Engineering		3		
GE1501	Chinese Civilisation – History and Philosophy		3		
GE course (Distributional Requirements)			3		
			Total: 15		
YEAR 3					
<u>Semester A</u>		<u>CUs</u>	<u>Semester B</u>	<u>CUs</u>	
SEE2001	Electromagnetic Principles for Energy Engineers	3	SEE3003	Climate Change and Adaptation Strategies	3
SEE2002	Chemical Sciences for Energy and Environmental Engineers	4	SEE4001	Engineers in Society	1
SEE3101	Engineering Thermofluids II	4	SEE4217	Waste and Wastewater Treatment Engineering	3
SEE3103	Energy Efficiency for Buildings	3	GE2410	English for Engineering	3
GE1401	University English	3	GE course (Distributional Requirements)		3
Total: 17			Total: 13		
YEAR 4					
<u>Semester A</u>		<u>CUs</u>	<u>Semester B</u>		<u>CUs</u>
ADSE4024	Project Management	3	CA1167	Engineering Communication	3
SEE3002	Energy and Environmental Economics	3	SEE3001	Energy and Environmental Policy	3
SEE3102	Power Plant Engineering	3	SEE3104	Sustainable and Renewable Energy	3
Major Elective x 2		3	SEE4004	Environmental Impact Assessment for Sustainable Development	4
		3	SEE4997	Final Year Project	3
Total: 15			Total: 16		
YEAR 5					
<u>Semester A</u>		<u>CUs</u>			
SEE4003	Energy and Environmental Engineering Laboratory	3			
SEE4112	Sustainable Engineering Systems: Modelling and Analysis	3			
SEE4997	Final Year Project	3			
Major Electives x 2		3			
		3			
Total: 15					

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ESE-2020-ASI-BSS

CITY UNIVERSITY OF HONG KONG School of Energy and Environment

List of 2 School-specified courses:
(1) MNE2016 Engineering Graphics
(2) SEE3002 Energy and Environmental Economics

Bachelor of Engineering in Energy Science and Engineering Recommended Study Plan (for 2020 cohort with Advanced Standing I taking BSS discipline)

YEAR 2

<u>Semester A</u>		<u>CUs</u>	<u>Semester B</u>		<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
GE1501	Chinese Civilisation - History and Philosophy	3	GE2410	English for Engineering	3
GE1401	University English	3	GE Courses (Distributional Requirements) x 2		3
					3
		Total: 16			Total: 18

YEAR 3

<u>Semester A</u>		<u>CUs</u>	<u>Semester B</u>		<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	Major Electives x 2		3
					3
		Total: 19			Total: 19

YEAR 4

<u>Semester A</u>		<u>CUs</u>	<u>Semester B</u>		<u>CUs</u>
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	SEE4997	Final Year Project	3
SEE4003	Energy and Environmental Engineering Laboratory	3	Major Electives x 2		3
SEE4112	Sustainable Engineering Systems: Modelling and Analysis	3			3
SEE4997	Final Year Project	3			
		Total: 18			Total: 16

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ESE-2020-ASI-SemB(3Y)-BSS

CITY UNIVERSITY OF HONG KONG
School of Energy and Environment

List of 2 School-specified courses:
(1) CA1167 Engineering Communication
(2) SEE3002 Energy and Environmental Economics

Bachelor of Engineering in Energy Science and Engineering Recommended Study Plan (for 2020 cohort with Advanced Standing I taking BSS discipline)

			YEAR 2			
			<u>Semester B</u>		<u>CU</u> s	
			MA2181	Mathematical Methods for Engineering	3	
			SEE2101	Engineering Thermofluids I	3	
			SEE2201	Fundamentals of Environmental Engineering	3	
			GE1501	Chinese Civilisation – History and Philosophy	3	
			GE course (Distributional Requirements)		3	
			Total: 15			
YEAR 3						
<u>Semester A</u>			<u>CU</u> s		<u>Semester B</u>	<u>CU</u> s
CA3732	Fire Engineering and Piped Services	3	SEE3003	Climate Change and Adaptation Strategies	3	
SEE2001	Electromagnetic Principles for Energy Engineers	3	SEE4001	Engineers in Society	1	
SEE2002	Chemical Sciences for Energy and Environmental Engineers	4	SEE4217	Waste and Wastewater Treatment Engineering	3	
SEE3101	Engineering Thermofluids II	4	GE2410	English for Engineering	3	
SEE3103	Energy Efficiency for Buildings	3	GE course (Distributional Requirements)		3	
GE1401	University English	3	Major Elective		3	
		Total: 20	Total: 16			
YEAR 4						
<u>Semester A</u>			<u>CU</u> s		<u>Semester B</u>	<u>CU</u> s
ADSE4024	Project Management	3	CA1167	Engineering Communication	3	
CA3712	Electrical Services	3	CA4718	Power Electronics and Smart Lighting Controls	3	
CA3722	HVAC Engineering	3	SEE3001	Energy and Environmental Policy	3	
SEE3002	Energy and Environmental Economics	3	SEE3104	Sustainable and Renewable Energy	3	
SEE3102	Power Plant Engineering	3	SEE4004	Environmental Impact Assessment for Sustainable Development	4	
Major Elective		3	SEE4997	Final Year Project	3	
		Total: 18	Total: 19			
YEAR 5						
<u>Semester A</u>			<u>CU</u> s			
CA4737	Fire Science and Modelling	3				
SEE4003	Energy and Environmental Engineering Laboratory	3				
SEE4112	Sustainable Engineering Systems: Modelling and Analysis	3				
SEE4997	Final Year Project	3				
Major Electives x 2		3				
		3				
		Total: 18				

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