ESE-2020-ASI

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)

Y LAK Z					
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
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			•		
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
SEEM4024	Project Management	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	Final Year Project	3
SEE4997	Final Year Project	3	Major Elect	ives x 2	3
Major Elective	es x 2	3			3
-		3			
		Total: 15			Total: 13

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

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

			YEAR 2		
			Semester B		CUs
			MA2181	Mathematical Methods for Engineering	3
			SEE2101	Engineering Thermofluids I	3
			SEE2201	Fundamentals of Environmental Engineering	3
			GE1501	Chinese Civilisation – History and Philosophy	3
				Distributional Requirements)	3
			GE course (1	Distributional requirements)	Total: 15
YEAR 3			I		10tal. 13
Semester A		<u>CUs</u>	Semester B		CUs
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		Distributional Requirements)	3
	, ,	Total: 17			Total: 13
YEAR 4					
Semester A		CUs	Semester B		<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			ı		
Semester A		<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	s x 2	3			
		3			
		Total: 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 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-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				
Semester A		CUs	Semester B	CUs
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	Tota	al: 18
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	Major Electives x 2	3
				3
		Total: 19	Tota	al: <mark>19</mark>
YEAR 4				
Semester A		<u>CUs</u>	Semester B	<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: <mark>18</mark>	Tota	al: <mark>16</mark>

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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 wit	h Advanced	Standing I taking BSS discipline)	
			YEAR 2		
			Semester B		<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			1		
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>
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 Elect	ive	3
		Total: <mark>20</mark>			Total: 16
YEAR 4			i		
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>
Semester A ADSE4024	Project Management	3	CA1167	Engineering Communication	3
Semester A ADSE4024 CA3712	Electrical Services	3 3	CA1167 CA4718	Power Electronics and Smart Lighting Controls	3
<u>Semester A</u> <u>ADSE4024</u> <u>CA3712</u> <u>CA3722</u>	Electrical Services HVAC Engineering	3 3 3	CA1167 CA4718 SEE3001	Power Electronics and Smart Lighting Controls Energy and Environmental Policy	3 3 3
Semester A ADSE4024 CA3712 CA3722 SEE3002	Electrical Services HVAC Engineering Energy and Environmental Economics	3 3 3 3	CA1167 CA4718 SEE3001 SEE3104	Power Electronics and Smart Lighting Controls Energy and Environmental Policy Sustainable and Renewable Energy	3
<u>Semester A</u> <u>ADSE4024</u> <u>CA3712</u> <u>CA3722</u>	Electrical Services HVAC Engineering	3 3 3 3 3	CA1167 CA4718 SEE3001	Power Electronics and Smart Lighting Controls Energy and Environmental Policy	3 3 3
Semester A ADSE4024 CA3712 CA3722 SEE3002	Electrical Services HVAC Engineering Energy and Environmental Economics	3 3 3 3 3 3	CA1167 CA4718 SEE3001 SEE3104	Power Electronics and Smart Lighting Controls Energy and Environmental Policy Sustainable and Renewable Energy	3 3 3 3 4 3
Semester A ADSE4024 CA3712 CA3722 SEE3002 SEE3102 Major Elective	Electrical Services HVAC Engineering Energy and Environmental Economics	3 3 3 3 3	CA1167 CA4718 SEE3001 SEE3104 SEE4004	Power Electronics and Smart Lighting Controls Energy and Environmental Policy Sustainable and Renewable Energy Environmental Impact Assessment for Sustainable Development	3 3 3 3 4
Semester A ADSE4024 CA3712 CA3722 SEE3002 SEE3102	Electrical Services HVAC Engineering Energy and Environmental Economics	3 3 3 3 3 Total: 18	CA1167 CA4718 SEE3001 SEE3104 SEE4004	Power Electronics and Smart Lighting Controls Energy and Environmental Policy Sustainable and Renewable Energy Environmental Impact Assessment for Sustainable Development	3 3 3 3 4 3
Semester A ADSE4024 CA3712 CA3722 SEE3002 SEE3102 Major Elective YEAR 5 Semester A	Electrical Services HVAC Engineering Energy and Environmental Economics Power Plant Engineering	3 3 3 3 3 Total: 18	CA1167 CA4718 SEE3001 SEE3104 SEE4004	Power Electronics and Smart Lighting Controls Energy and Environmental Policy Sustainable and Renewable Energy Environmental Impact Assessment for Sustainable Development	3 3 3 3 4 3
Semester A ADSE4024 CA3712 CA3722 SEE3002 SEE3102 Major Elective YEAR 5 Semester A CA4737	Electrical Services HVAC Engineering Energy and Environmental Economics Power Plant Engineering Fire Science and Modelling	3 3 3 3 3 Total: 18	CA1167 CA4718 SEE3001 SEE3104 SEE4004	Power Electronics and Smart Lighting Controls Energy and Environmental Policy Sustainable and Renewable Energy Environmental Impact Assessment for Sustainable Development	3 3 3 3 4 3
Semester A ADSE4024 CA3712 CA3722 SEE3002 SEE3102 Major Elective YEAR 5 Semester A CA4737 SEE4003	Electrical Services HVAC Engineering Energy and Environmental Economics Power Plant Engineering Fire Science and Modelling Energy and Environmental Engineering Laboratory	3 3 3 3 3 7 Total: 18 CUs 3 3	CA1167 CA4718 SEE3001 SEE3104 SEE4004	Power Electronics and Smart Lighting Controls Energy and Environmental Policy Sustainable and Renewable Energy Environmental Impact Assessment for Sustainable Development	3 3 3 3 4 3
Semester A ADSE4024 CA3712 CA3722 SEE3002 SEE3102 Major Elective YEAR 5 Semester A CA4737 SEE4003 SEE4112	Electrical Services HVAC Engineering Energy and Environmental Economics Power Plant Engineering Fire Science and Modelling Energy and Environmental Engineering Laboratory Sustainable Engineering Systems: Modelling and Analysis	3 3 3 3 3 Total: 18 CUs 3 3 3 3	CA1167 CA4718 SEE3001 SEE3104 SEE4004	Power Electronics and Smart Lighting Controls Energy and Environmental Policy Sustainable and Renewable Energy Environmental Impact Assessment for Sustainable Development	3 3 3 3 4 3
Semester A ADSE4024 CA3712 CA3722 SEE3002 SEE3102 Major Elective YEAR 5 Semester A CA4737 SEE4003 SEE4112 SEE4997	Electrical Services HVAC Engineering Energy and Environmental Economics Power Plant Engineering Fire Science and Modelling Energy and Environmental Engineering Laboratory Sustainable Engineering Systems: Modelling and Analysis Final Year Project	3 3 3 3 3 3 Total: 18 CUs 3 3 3 3 3 3	CA1167 CA4718 SEE3001 SEE3104 SEE4004	Power Electronics and Smart Lighting Controls Energy and Environmental Policy Sustainable and Renewable Energy Environmental Impact Assessment for Sustainable Development	3 3 3 3 4 3
Semester A ADSE4024 CA3712 CA3722 SEE3002 SEE3102 Major Elective YEAR 5 Semester A CA4737 SEE4003 SEE4112	Electrical Services HVAC Engineering Energy and Environmental Economics Power Plant Engineering Fire Science and Modelling Energy and Environmental Engineering Laboratory Sustainable Engineering Systems: Modelling and Analysis Final Year Project	3 3 3 3 3 Total: 18 CUs 3 3 3 3	CA1167 CA4718 SEE3001 SEE3104 SEE4004	Power Electronics and Smart Lighting Controls Energy and Environmental Policy Sustainable and Renewable Energy Environmental Impact Assessment for Sustainable Development	3 3 3 3 4 3
Semester A ADSE4024 CA3712 CA3722 SEE3002 SEE3102 Major Elective YEAR 5 Semester A CA4737 SEE4003 SEE4112 SEE4997	Electrical Services HVAC Engineering Energy and Environmental Economics Power Plant Engineering Fire Science and Modelling Energy and Environmental Engineering Laboratory Sustainable Engineering Systems: Modelling and Analysis Final Year Project	3 3 3 3 3 3 Total: 18 CUs 3 3 3 3 3 3	CA1167 CA4718 SEE3001 SEE3104 SEE4004	Power Electronics and Smart Lighting Controls Energy and Environmental Policy Sustainable and Renewable Energy Environmental Impact Assessment for Sustainable Development	3 3 3 3 4 3

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

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