ESE-2021-4YR

CITY UNIVERSITY OF HONG KONG School of Energy and Environment

Bachelor of Engineering in Energy Science and Engineering
Recommended Study Plan (for 2021 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

		Total: 15			Total: 13
		3			
Major Electives x 2		3			3
SEE4997	Final Year Project	3	Major Electi	ives x 2	3
SEE4112	Sustainable Engineering Systems: Modelling and Analysis	3	SEE4997	Final Year Project	3
SEE4003	Energy and Environmental Engineering Laboratory	3	SEE4004	Environmental Impact Assessment for Sustainable Development	4
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>
YEAR 4		Total: 16			Total: 13
SEE3103	Energy Efficiency for Buildings	3	SEE4217	Waste and Wastewater Treatment Engineering	3
SEE3102	Power Plant Engineering	3	SEE4001	Engineers in Society	1
SEE3101	Engineering Thermofluids II	4	SEE3104	Sustainable and Renewable Energy	3
SEE3002	Energy and Environmental Economics	3	SEE3003	Climate Change and Adaptation Strategies	3
ADSE4024	Project Management	3	SEE3001	Energy and Environmental Policy	3
Semester A	D. 1. 116	<u>CUs</u>	Semester B	D 10 10 10 10 10 10 10 10 10 10 10 10 10	<u>CUs</u>
YEAR 3			L		
		Total: 13			Total: 15
			GE Course ((Distributional Requirements)	3
GE1501	Chinese Civilisation - History and Philosophy	3	SEE2201	Fundamentals of Environmental Engineering	3
SEE2003	Introduction to Energy and Environmental Data Analysis	3	SEE2101	Engineering Thermofluids I	3
SEE2002	Chemical Sciences for Energy and Environmental Engineers	4	MA2181	Mathematical Methods for Engineering	3
SEE2001	Electromagnetic Principles for Energy Engineers	3	CA1167	Engineering Communication	3
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>
YEAR 2			·		
		Total: 18			Total: 18
·	1 /	3		(Distributional Requirements)	3
GE Courses (Distributional Requirements) x 2		3	GE2410	English for Engineering	3
GE1401	University English	3	SEE1003	Introduction to Sustainable Energy and Environmental Engineering	3
CHEM1300	Principles of General Chemistry	3	SEE1002	Introduction to Computing for Energy and Environment	3
CHEM1200	Discovery in Biology	3	PHY1201	General Physics I	3
MA1300	Enhanced Calculus and Linear Algebra I	3	MA1301	Enhanced Calculus and Linear Algebra II	3
MA1200 /	Calculus and Basic Linear Algebra I /		MA1201 /	Calculus and Basic Linear Algebra II /	
Semester A		CUs	Semester B		CUs
YEAR 1					

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-2021-4YR-BSS

CITY UNIVERSITY OF HONG KONG

School of Energy and Environment

Bachelor of Engineering in Energy Science and Engineering
Recommended Study Plan (for 2021 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		<u>CUs</u>	Semester B		<u>CUs</u>
MA1200 /	Calculus and Basic Linear Algebra I /	3	MA1201 / Calc	culus and Basic Linear Algebra II /	3
MA1300	Enhanced Calculus and Linear Algebra I	3	MA1301 Enha	anced Calculus and Linear Algebra II	
CHEM1200	Discovery in Biology	3	PHY1201 Gene	eral Physics I	3
CHEM1300	Principles of General Chemistry	3	SEE1002 Intro	oduction to Computing for Energy and Environment	3
GE1401	University English	3	SEE1003 Intro	oduction to Sustainable Energy and Environmental Engineering	3
GE Courses (Distributional Requirements) x 2		3	GE2410 Engl	lish for Engineering	3
		3	GE Course (Distributional Requirements)		3
•		Total: 18			Total: 18
YEAR 2			•		
Semester A		<u>CUs</u>	Semester B		<u>CUs</u>
SEE2001	Electromagnetic Principles for Energy Engineers	3	CA1167 Engi	ineering Communication	3
SEE2002	Chemical Sciences for Energy and Environmental Engineers	4	MA2181 Math	hematical Methods for Engineering	3
SEE2003	Introduction to Energy and Environmental Data Analysis	3	SEE2101 Engi	ineering Thermofluids I	3
GE1501	Chinese Civilisation - History and Philosophy	3	SEE2201 Fund	damentals of Environmental Engineering	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 Energ	rgy and Environmental Policy	3
CA3732	Fire Engineering and Piped Services	3	SEE3003 Clim	nate Change and Adaptation Strategies	3
SEE3002	Energy and Environmental Economics	3	SEE3104 Susta	tainable and Renewable Energy	3
SEE3101	Engineering Thermofluids II	4	SEE4001 Engi	ineers in Society	1
SEE3102	Power Plant Engineering	3	SEE4217 Wast	ste and Wastewater Treatment Engineering	3
SEE3103	Energy Efficiency for Buildings	3	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	ver Electronics and Smart Lighting Controls	3
CA3722	HVAC Engineering	3	SEE4004 Envi	ironmental Impact Assessment for Sustainable Development	4
CA4737	Fire Science and Modelling	3	SEE4997 Final	al 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

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

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