

- List of 3 School-specified courses:
 (1) SEE1003 Introduction to Sustainable Energy and Environmental Engineering
 (2) SEE3002 Energy and Environmental Economics
 (3) MNE2016 Engineering Graphics

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

YEAR 1

Semester A		CUUs	Semester B		CUUs
MA1200 /	Calculus and Basic Linear Algebra I /	3	MA1201 /	Calculus and Basic Linear Algebra II /	3
MA1300	Enhanced Calculus and Linear Algebra I		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	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		CUUs	Semester B		CUUs
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 (Distributional Requirements)		3
GE1501	Chinese Civilisation - History and Philosophy	3			
Total: 16			Total: 12		

YEAR 3

Semester A		CUUs	Semester B		CUUs
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		CUUs	Semester B		CUUs
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
		3			
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)

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(2) SEE3002 Energy and Environmental Economics
(3) MNE2016 Engineering Graphics

YEAR 1

<u>Semester A</u>		<u>CUs</u>	<u>Semester B</u>		<u>CUs</u>
MA1200 / MA1300	Calculus and Basic Linear Algebra I / Enhanced Calculus and Linear Algebra I	3	MA1201 / MA1301	Calculus and Basic Linear Algebra II / 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
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

<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
SEE2003	Introduction to Energy and Environmental Data Analysis	3	GE Course (Distributional Requirements)		3
GE1501	Chinese Civilisation - History and Philosophy	3			
Total: 16			Total: 12		

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>
CA3722	HVAC Engineering	3	CA4718	Power Electronics and Lighting Controls	3
CA4737	Fire Science and Modelling	3	SEE4004	Environmental Impact Assessment for Sustainable Development	4
SEE4003	Energy and Environmental Engineering Laboratory	3	SEE4997	Final Year Project	3
SEE4112	Sustainable Engineering Systems: Modelling and Analysis	3	Major Electives x 2		3
SEE4997	Final Year Project	3			3
SEEM4024	Project Management	3			
Total: 18			Total: 16		