

# 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) SEE1003 Introduction to Sustainable Energy and Environmental Engineering  
(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 /	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
<b>Total: 18</b>			<b>Total: 18</b>		

#### 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			
<b>Total: 16</b>			<b>Total: 12</b>		

#### 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
<b>Total: 16</b>			<b>Total: 13</b>		

#### 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
		3			
<b>Total: 15</b>			<b>Total: 13</b>		

# 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) SEE1003 Introduction to Sustainable Energy and Environmental Engineering  
(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 /	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
<b>Total: 18</b>			<b>Total: 18</b>		

## 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			
<b>Total: 16</b>			<b>Total: 12</b>		

## 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
<b>Total: 19</b>			<b>Total: 19</b>		

## 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 Modeling	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			
<b>Total: 18</b>			<b>Total: 16</b>		