EVE Curriculum (2017 Cohort - Normative 4-year Degree) [min. no. of CUs for the award: 122]

(1) Gateway Education (GE) Requirement (30 CUs)

GE Requiremen	t		Credit Units
University	GE1401	University English	3
Requirements	GE2410	English for Engineering	3
	GE1501	Chinese Civilisation – History and Philosophy	3
Distributional	A minimum	of 3 credit units from each of the three distributional	12
Requirements	areas below:		
	- Area 1:	Arts and Humanities	
	- Area 2:	Study of Societies, Social and Business	
	Organis	eations	
	- Area 3:	Science and Technology	
School-specified	MBE2016	Engineering Graphics	3
Requirements	SEE1003	Introduction to Sustainable Energy and	3
		Environmental Engineering	
	SEE3002	Energy and Environmental Economics	3
Total			30

(2) School Requirement (18 CUs)

Course		Credit Units	Remarks
AP1201	General Physics I	3	
BCH1100	Chemistry	3	
BCH1200	Discovery in Biology	3	
MA1200 /	Calculus and Basic Linear Algebra I /	3	Select either MA1200
MA1300	Enhanced Calculus and Linear Algebra I		or MA1300
MA1201 /	Calculus and Basic Linear Algebra II /	3	Select either MA1201
MA1301	Enhanced Calculus and Linear Algebra II		or MA1301
SEE1002	Introduction to Computing for Energy and	3	
	Environment		

(3) Major Requirement (74 CUs)

A. Basic Core Courses (20 CUs)

Course		Credit Units
BCH2004	Principles of Analytical Chemistry	4
MA2181	Mathematical Methods for Engineering	3
SEE2002	Chemical Sciences for Energy and Environmental Engineers	4
SEE2003	Introduction to Energy and Environmental Data Analysis	3
SEE2101	Engineering Thermofluids I	3
SEE2201	Fundamentals of Environmental Engineering	3

Last modified: 16 December 2021 Page 1 of 4

B. Major Core Courses (42 CUs)

Course		Credit
		Units
SEE2203	Environmental, Safety, and Occupational Health Management	3
SEE2204	Principles of Sustainability	3
SEE3003	Climate Change and Adaptation Strategies	3
SEE3101	Engineering Thermofluids II	4
SEE3203	Air Pollution	3
SEE4001	Engineers in Society	1
SEE4002	Environmental Engineering Laboratory	3
SEE4004	Environmental Impact Assessment for Sustainable Development	4
SEE4204	Environmental Systems Modelling	3
SEE4217	Waste and Wastewater Treatment Engineering	3
SEE4218	Water and Water Resource Engineering	3
SEE4996	Final Year Project	6
SEEM4024	Project Management	3

C. Electives (12 CUs) - select at least FOUR courses from the following list

Course	,	Credit	Remarks
		Units	
CA3677	Hydraulics and Hydrology	3	
CHEM4035	Environmental Measurements	4	
SEE4122	Chemical Separations for Energy and	3	Environmental
	Environmental Applications		
SEE4203	Advanced Treatment and Management of	3	Technology
	Solid and Municipal Waste		
SEE4216	Combustion and Air Pollution Control	3	
SDSC3002	Data Mining	3	
SEE3001	Energy and Environmental Policy	3	
SEE3104	Sustainable and Renewable Energy	3	
SEE3204*	Urban Sustainability	3	
SEE3205	Urban Sustainability	3	Sustainability and
SEE3206	Environmental Social Governance	3	Environmental
SEE4116	Energy and Carbon Auditing	3	Management
SEE4205	Design of Smart Cities and Sustainable	3	
	Building		
SEE4206	Social Perspectives of Environmental	3	
	Science and Engineering		
CHEM4022	Environmental Toxicology	4	
CHEM4035	Environmental Measurements	4	
CHEM4039	Environmental Conservation and Resources	4	
	Management		Environmental
SEE3201	Atmospheric Science – An Introductory	3	Science
	Survey		
SEE4202	Atmospheric Chemistry	3	
SEE4219	Air Quality Modeling	3	

^{*}SEE3204 is a summer course (not offered until further notice)

EVE Curriculum (2017 Cohort – Advanced Standing I) [min. no. of CUs for the award: 95]

(1) Gateway Education (GE) Requirement (21 CUs)

GE Requiremen	t	Credit Units	
University	GE1401 University English	3	
Requirements	GE2401 / English for Science /	3	
•	GE2410 English for Engineering		
	GE1501 Chinese Civilisation – History and Philosophy	3	
Distributional	A minimum of 6 credit units from two of the three distributional	6	
Requirements	areas below:		
	- Area 1: Arts and Humanities		
	- Area 2: Study of Societies, Social and Business		
	Organisations		
	- Area 3: Science and Technology		
School-specified	MBE2016 Engineering Graphics	3	
Requirements	SEE3002 Energy and Environmental Economics	3	
Total		21	

(2) School Requirement (Not required)

(3) Major Requirement (74 CUs)

A. Basic Core Courses (20 CUs)

Course		Credit Units
BCH2004	Principles of Analytical Chemistry	4
MA2181	Mathematical Methods for Engineering	3
SEE2002	Chemical Sciences for Energy and Environmental Engineers	4
SEE2003	Introduction to Energy and Environmental Data Analysis	3
SEE2101	Engineering Thermofluids I	3
SEE2201	Fundamentals of Environmental Engineering	3

B. Major Core Courses (42 CUs)

Course		Credit
		Units
SEE2203	Environmental, Safety, and Occupational Health Management	3
SEE2204	Principles of Sustainability	3
SEE3003	Climate Change and Adaptation Strategies	3
SEE3101	Engineering Thermofluids II	4
SEE3203	Air Pollution	3
SEE4001	Engineers in Society	1
SEE4002	Environmental Engineering Laboratory	3
SEE4004	Environmental Impact Assessment for Sustainable Development	4
SEE4204	Environmental Systems Modelling	3
SEE4217	Waste and Wastewater Treatment Engineering	3
SEE4218	Water and Water Resource Engineering	3
SEE4996	Final Year Project	6
SEEM4024	Project Management	3

C. Electives (12 CUs) - select at least FOUR courses from the following list

Course	,	Credit	Remarks
		Units	
CA3677	Hydraulics and Hydrology	3	
CHEM4035	Environmental Measurements	4	
SEE4122	Chemical Separations for Energy and	3	Environmental
	Environmental Applications		
SEE4203	Advanced Treatment and Management of	3	Technology
	Solid and Municipal Waste		
SEE4216	Combustion and Air Pollution Control	3	
SDSC3002	Data Mining	3	
SEE3001	Energy and Environmental Policy	3	
SEE3104	Sustainable and Renewable Energy	3	
SEE3204*	Urban Sustainability	3	
SEE3205	Urban Sustainability	3	Sustainability and
SEE3206	Environmental Social Governance	3	Environmental
SEE4116	Energy and Carbon Auditing	3	Management
SEE4205	Design of Smart Cities and Sustainable	3	
	Building		
SEE4206	Social Perspectives of Environmental	3	
	Science and Engineering		
CHEM4022	Environmental Toxicology	4	
CHEM4035	Environmental Measurements	4	
CHEM4039	Environmental Conservation and Resources	4	
	Management		Environmental
SEE3201	Atmospheric Science – An Introductory	3	Science
	Survey		
SEE4202	Atmospheric Chemistry	3	
SEE4219	Air Quality Modeling	3	

^{*}SEE3204 is a summer course (not offered until further notice)