

Four-Year Study Plan of Environmental Science Programme (2026 cohort)

Rev 20260723

Rev 202607/23

Course Code	Course Title	Year One			Year Two			Year Three		Year Four	
		Sem 1	Winter	Sem 2	Sem 1	Sem 2	Summer	Sem 1	Sem 2	Sem 1	Sem 2
I. Major Required Courses (55 Units)											
ENV1043	Introduction to Environmental Science	3									
SCIT1023	Laboratory Safety	1									
BIOL1023	Diversity of Life and Laboratory			3							
BIOL2003	General Biology			3							
MATH1123	Calculus For Science and Engineering			3							
BIOL2023	Conservation Ecology				3						
BIOL2103	Biology and Ecology Laboratory				3						
STAT1013	Introduction to Probability and Statistics				3						
BIOL2093	Microbiology					3					
CHEM2003	General Chemistry					3					
CHEM2053	Chemistry Laboratory					3					
BIOL3003	Environmental Health and Toxicology							3			
ENV3043	Environmental Study Laboratory							3			
BIOL3053	Environmental Biotechnology and Laboratory								3		
ENV3003	Resources and the Environment								3		
ENV3163	Atmospheric Science and Pollution								3		
ENV3173	Hydrology and Water Engineering								3		
ENV3013	Sustainable Environmental Management									3	
ENV4004	Final Year Project I (ENV)									3	
II. Major Elective Courses (18 Units)											
ME01 ME02 ME03 ME04 ME05 ME06								6	3	6	3
III. University Core Courses (37 Units)											
UCLC1003	University Chinese			3							
UCLC1013	English for Academic Purposes I	3									
UCLC1023	English for Academic Purposes II			3							
UCAI1003	Introduction to AI Literacy	3									
CHII103	Introduction to Modern Social Theories				3						
CHII203	Morality and Foundations of Law			3							
CHII063	Chinese Culture and Modern China					3					
CHII073	Contemporary Chinese Society and Thought I	3									
CHII253	Contemporary Chinese Society and Thought II					3					
CHII193	Contemporary World and China ^①						2				
MT1003	Military Training		2								
WPEX1013	Emotional Intelligence			1							
WPEX2013	Experiential Arts ^②					1					
WPEX2023/ WPEX2033	Voluntary Service ^② , or Environmental Awareness ^②				1						
UCHL1XX3	Healthy Lifestyle ^②	1		1		1					
IV. General Education Courses (18 Units)											
Level 1	History and Civilization ^②				3						
Foundational Courses	Quantitative Reasoning ^②	3									
	Values and the Meaning of Life ^③			3							
Level 2 Interdisciplinary Thematic Courses	Culture, Creativity and Innovation ^④ , or Science, Technology and Society ^④ , or Sustainable Communities ^④					3 ^④		3			
Level 3 GE Capstone Courses	Service-Learning Course ^④ , or Service Leadership Education Course ^④ , or Experiential Learning Course ^④ , or Interdisciplinary Independent Study ^④										3
V. Free Elective Courses (24 Units)											
FE01 FE02 FE03 FE04 FE05 FE06 FE07 FE08					3			6	6	3	6
Total Units: 152		17	2	23	19	20	2	21	21	15	12

^① This 2-unit course requires student to attend at least 10 lectures within his/her first two years of study.

^② This denotes a course category in which a list of courses may be developed for students' selection. Students are expected to refer to the Online Course Selection System for courses available under each category.

^③ Students are required to take GFVM1033 Ethics in An Era of Artificial Intelligence and Robotics or GFVM1043 Ethics in Daily Life and Life Sciences under this category.

^④ Students are required to choose one course from GTSC2093 IT for Success in Everyday Life and Work, or GTSC2053 Telling a Story with Data.

Four-Year Study Plan of Intelligent Science and Technology Plus Environmental Science Programme (2026 cohort)

Rev 20260723

		REV 202607/23											
Course Code	Course Title	Year One			Year Two			Year Three		Year Four			
		Sem 1	Winter	Sem 2	Sem 1	Sem 2	Summer	Sem 1	Sem 2	Sem 1	Sem 2		
I. Major Required Courses (55 Units)													
ENV1043	Introduction to Environmental Science	3											
MATH1123 ^{①*}	Calculus For Science and Engineering	3											
SCIT1023	Laboratory Safety	1											
AI2033 ^{②*}	Probability and Statistics			3									
BIOL1023	Diversity of Life and Laboratory			3									
BIOL2003	General Biology			3									
BIOL2023	Conservation Ecology				3								
BIOL2103	Biology and Ecology Laboratory				3								
BIOL2093	Microbiology					3							
CHEM2003	General Chemistry					3							
CHEM2053	Chemistry Laboratory					3							
BIOL3003	Environmental Health and Toxicology							3					
ENV3043	Environmental Study Laboratory							3					
BIOL3053	Environmental Biotechnology and Laboratory									3			
ENV3003	Resources and the Environment									3			
ENV3163	Atmospheric Science and Pollution									3			
ENV3173	Hydrology and Water Engineering									3			
ENV3013	Sustainable Environmental Management										3		
ENV4004	Final Year Project I (ENV)										3		
II. Major Elective Courses (18 Units)													
ME01 ME02 ME03 ME04 ME05 ME06		3 ^{①*}							3	3	6	3 ^{②*}	
III. University Core Courses (37 Units)													
UCLC1003	University Chinese			3									
UCLC1013	English for Academic Purposes I	3											
UCLC1023	English for Academic Purposes II			3									
UCAI1003	Introduction to AI Literacy	3											
CHI1103	Introduction to Modern Social Theories				3								
CHI1203	Morality and Foundations of Law			3									
CHI1063	Chinese Culture and Modern China					3							
CHI1073	Contemporary Chinese Society and Thought I	3											
CHI1253	Contemporary Chinese Society and Thought II					3							
CHI1193	Contemporary World and China ^①						2						
MT1003	Military Training		2										
WPEX1013	Emotional Intelligence			1									
WPEX2013	Experiential Arts ^②					1							
WPEX2023/ WPEX2033	Voluntary Service ^② , or Environmental Awareness ^②				1								
UCHL1XX3	Healthy Lifestyle ^②	1		1		1							
IV. General Education Courses (18 Units)													
Level 1 Foundational Courses	History and Civilization ^②				3								
	Quantitative Reasoning ^②	3											
	Values and the Meaning of Life ^②			3									
Level 2 Interdisciplinary Thematic Courses	Culture, Creativity and Innovation ^② , or Science, Technology and Society ^② , or Sustainable Communities ^②					3 ^③		3					
Level 3 GE Capstone Courses	Service-Learning Course ^② , or Service Leadership Education Course ^② , or Experiential Learning Course ^② , or Interdisciplinary Independent Study ^②											3	
V. Free Elective Courses (24 Units)													
FE01 FE02 FE03 FE04 FE05 FE06 FE07 FE08					3 ^{③*}				6	6	3	6	
Total Units: 152		23	2	23	16	20	2	18	21	15	12		

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② This denotes a course category in which a list of courses may be developed for students' selection. Students are expected to refer to the Online Course Selection System for courses available under each category.

③ Students are required to take GFVM1033 Ethics in An Era of Artificial Intelligence and Robotics or GFVM1043 Ethics in Daily Life and Life Sciences under this category.

④ Students are required to choose one course from GTSC2093 IT for Success in Everyday Life and Work, or GTSC2053 Telling a Story with Data.

* Common Core Course (Required) - CCR

⑤ Students are required to take MATH1123 Calculus for Science and Engineering under MR.

⑥ Students are required to take AI2033 Probability and Statistics under MR, equivalent to STAT1013 Introduction to Probability and Statistics.

⑦ Students are required to take AI1003 Python Programming under ME.

⑧ Students are required to take ENV4005 Final Year Project II (ENV) under ME.

⑨ Students are required to take AI2013 Introduction to Artificial Intelligence under FE.

Common Core Course (Elective) - CCE:

The CCE courses listed below are strongly recommended for students of the Intelligent Science and Technology plus Environmental Science Programme.

AI1013	Object-Oriented Programming	FE
AI1023	Database Management Systems	FE
AI2003	Data Structures and Algorithm Analysis	FE
AI2023	Artificial Intelligence Workshop	FE
AI3013	Machine Learning	FE
AI3033	Introduction to Robotics	FE
AI3073	Introduction to Bioinformatics	FE

ME Course List of ENVS (2026 cohort)

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Course Code	Course Title	Units
ME Courses on Science and Technology		
BIOL2063	Biochemistry	3
BIOL2083	The Ecology and Bioconservation in China	3
BIOL3033	Practical Biodiversity Conservation	3
BIOL4023	Biochemistry and Biotechnology Laboratory	3
CHEM3013	Chemical Analysis	3
DS1013#	Python Programming for Beginners	3
ENV1003	Climate Change	3
ENV1023	Introduction to Planet Earth Science	3
ENV1053	Introduction to Environmental Science Laboratory	3
ENV3023	Environmental Chemistry and Pollution Control	3
ENV3053	Environmental Nanotechnology	3
ENV3073	Introduction to Geographic Information Systems for Environmental Management	3
ENV3103	Introduction to Environmental Engineering	3
ENV3153	Research Methods for Environmental Science and Studies	3
ENV3183	Practical Environmental Analysis and Monitoring	3
ENV3193	Carbon Technology and Renewable Energy	3
ENV3203	CAD and Python for Environmental Science and Engineering	3
ENV4003	Green Business Management	3
ENV4005*	Final Year Project II (ENV)	3
ENV4013	Integrated Solid Waste Management	3
ENV4033	Land Contamination and Remediation	3
ENV4043	Selected Topics in Environmental Science	3
ENV4073	Internship in Environmental Science and Management	3
ENV4083	Advanced Geographic Information Systems for Sustainable Environment	3
MATH1053**	Linear Algebra I	3
PHYS2003	Principles of Physics	3
ME Courses on Business and Management		
ACCT2043	Principles of Accounting I	3
ECON2013	Principles of Microeconomics	3
MHR3003	Human Resource Management	3

Notes:

At least 6 of 18 units must be selected from the courses offered by the Environmental Science Programme and the others can be selected from the courses offered by other programmes. Students should pay attention to the pre-requisite(s) for each course.

Students of the Intelligent Science and Technology Plus Environmental Science Programme are required to take AI1003 Python Programming instead of DS1013 Python Programming for Beginners under ME.

* Except for the Intelligent Science and Technology Plus Environmental Science Programme, students who continue with the final year project in the second semester of Year 4 should, with the approval of the Programme, register ENV4005 Final Year Project II (ENV) as a major elective in that semester.

** Students of the Intelligent Science and Technology Plus Environmental Science Programme are strongly recommended to take MATH1053 Linear Algebra I.

