Four-Year Study Plan of Environmental Science Programme (2024 cohort)

Rev 20240724

Course Code	Course Title	Year One		Year Two		Year Three		Year Four	
		Sem 1	Sem 2	Sem 1	Sem 2	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						
UCLC1033	English for Academic Purposes III				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 China①				2				
MT1003	Military Training	2							
WPEX1013	Emotional Intelligence		1						
WPEX2013	Experiential Arts②				1				
WPEX2023/ WPEX2033	Voluntary Service②, or Environmental Awareness②			1					
UCHL1XX3	Healthy Lifestyle②	1	1		1				
IV. General Education Courses (18 Units)									
Level 1 Foundational Courses	History and Civilization②			3					
	Quantitative Reasoning②	3							
	Values and the Meaning of Life③		3						
Level 2 Interdisciplinary Thematic Courses	Culture, Creativity and Innovation②, or Science, Technology and Society②, or Sustainable Communities②				3④	3			
Level 3 GE Capstone Courses	Service-Learning Course②, or Service Leadership Education Course②, or Experiential Learning Course②, or Interdisciplinary Independent Study②								3
V. Free Elective Courses (24 Units)									
FE01 FE02 FE03 FE04 FE05 FE06 FE07 FE08		3⑤		3		6	6	3	3
Total Units: 152		**22**	**23**	**19**	**22**	**21**	**21**	**15**	**9**

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.

⑤ Students are recommended to take FE courses offered by the ENVS Programme.

ME Course List of ENVS (2024 cohort)

Rev 20261109

Course Code	Course Title	Units
ME Courses on Science and Technology		
~~BIOL1013~~	~~Biodiversity and the Extinction Crisis~~	~~3~~
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
~~ENV1013~~	~~Introduction to Eco-Cities~~	~~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
~~ENV3063~~	~~Introduction to Environmental Geology~~	~~3~~
ENV3073	Introduction to Geographic Information Systems for Environmental Management	3
~~ENV3083~~	~~Fundamentals of Biogeochemistry~~	~~3~~
~~ENV3093~~	~~Terrestrial and Aquatic Environments in China~~	~~3~~
ENV3103	Introduction to Environmental Engineering	3
~~ENV3113~~	~~China's Environmental Law and International Cooperation Policy~~	~~3~~
~~ENV3123~~	~~Introduction to Occupational Health and Safety~~	~~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
ENV4093	Energy Storage Technologies and Laboratory	3
~~GCAP3143~~	~~Ecological Civilization in Greater Bay Community~~	~~3~~
MATH1053	Linear Algebra I	3
PHYS2003	Principles of Physics	3
ME Courses on Business and Management		
ACCT2043	Principles of Accounting I	3
~~ECON2003~~	~~Principles of Macroeconomics~~	~~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 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.