

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 | | | | | |
| 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 | | | | | | |
| CHII1253 | Contemporary Chinese Society and Thought II | | 3 | | | | | | |
| CHII1193 | 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 ^③ | | 3 | | | | | | |
| Level 2 Interdisciplinary Thematic Courses | Culture, Creativity and Innovation ^② , or Science, Technology and Society ^② , or Sustainable Communities ^② | | | | 3 ^④ | 3 | | | |
| | 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 ^⑤ | | 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 20260120

| 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 Eeo-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 |
| 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.

