

(For students admitted in 2022-23 under the 4-year degree)

BSc in Environmental Management and Technology

In addition to the requirements of their major programs, students are required to complete the University requirements for graduation. For details please refer to the respective section on this website.

Students may use no more than 6 credits earned from courses offered in self-paced online delivery mode to satisfy the graduation requirements of a degree program. This 6-credit limit does not apply to credits obtained through the credit transfer procedures of the University.

For students graduating with an additional major, they must take all the requirements specified for that major, within which they must complete at least 20 single-counted credits. These 20 credits cannot be used to fulfill any other requirements for graduation except for the 120-credit degree requirement.

Under the new 30-credit Common Core Program which is applicable to students admitted to the University in 2022-23 and thereafter, courses that have been counted towards Major Requirements are not allowed to be reused for fulfilment of the University Common Core Requirements. Students should look up the details of the Common Core Program including the general and School-/program-specific distributional requirements posted on the Common Core website where the link to it is available on this website.

Major Requirements

Fundamental Course(s)

| | | | Credit(s) attained |
|-----------|-------|---|-----------------------|
| COMP/ISOM | | Note: COMP 1021 <u>OR</u> COMP 1022P <u>OR</u> ISOM 2010 | 3 |
| COMP | 1021 | Introduction to Computer Science | 3 |
| COMP | 1022P | Introduction to Computing with Java | 3 |
| ISOM | 2010 | Introduction to Information Systems | 3 |
| LANG | 2082 | Communication for Environmental Management and Technology I | 2 |
| LANG | 2083 | Communication for Environmental Management and Technology II | 2 |
| MATH | | Note: MATH 1003 <u>OR</u> MATH 1012 <u>OR</u> MATH 1013 <u>OR</u> MATH 1020 <u>OR</u> MATH 1023 | 3-4 |
| MATH | 1003 | Calculus and Linear Algebra | 3 |
| MATH | 1012 | Calculus IA | 4 |
| MATH | 1013 | Calculus IB | 3 |
| MATH | 1020 | Accelerated Calculus | 4 |
| MATH | 1023 | Honors Calculus I | 3 |

Required Course(s)

| | | | Credit(s) attained |
|------|------|--|-----------------------|
| ENVR | 1170 | Science, Environment and Society - From Big Bang to Big Data | 3 |
| ENVR | 2001 | Academic and Professional Development I | 1 |

| | | | |
|------|------|---|---|
| ENVR | 2010 | Environmental Science Fundamentals | 3 |
| ENVR | 2030 | Material and Energy Balance for Environmental Management | 3 |
| ENVR | 2090 | Environmental Laboratory | 3 |
| ENVR | 3001 | Academic and Professional Development II | 1 |
| ENVR | 3110 | Life Cycle Assessment for Sustainable Development | 3 |
| ENVR | 3210 | Environmental Technology for Impact Assessment | 3 |
| ENVR | 3220 | Energy Sources and Usage | 3 |
| ENVR | 3310 | Green Business Strategy | 3 |
| ENVR | 3410 | Economics for Environmental Policy and Management | 3 |
| ENVR | 3420 | Environmental Law and Regulations | 3 |
| ENVR | 4001 | Academic and Professional Development III | 1 |
| ENVR | 4320 | ESG Management and Reporting | 3 |
| ENVR | 4980 | Environmental Management and Technology Capstone Project I | 3 |
| ENVR | 4990 | Environmental Management and Technology Capstone Project II | 3 |
| ECON | | Note: ECON 2103 <u>OR</u> ECON 2113 | 3 |
| ECON | 2103 | Principles of Microeconomics | 3 |
| ECON | 2113 | Microeconomics | 3 |
| FINA | 2203 | Fundamentals of Business Finance | 3 |
| ISOM | 2500 | Business Statistics | 3 |
| LANG | 3081 | Communication for Environmental Management and Technology III | 2 |
| MGMT | 2110 | Organizational Behavior | 3 |

Elective(s)

| | | | |
|-------------------------------|--------|---|-----------------------------------|
| | | | Minimum credit(s) required |
| EVMT | | Environmental Management and Technology Electives (Courses from the specified elective list, of which at least 9 credits must be at 3000-level or above.) | 12 |
| ENVR Courses | | | |
| ENVR | | All ENVR elective courses | |
| Environmental Science Courses | | | |
| CHEM | 1008 | Introductory Chemistry | 3 |
| CHEM | 1012 | General Chemistry B: Atomic Structure, Molecules, and Bonding Theories | 3 |
| LIFS | 1010 | Introduction to Biological Sciences | 3 |
| LIFS | 2060 | Biodiversity | 3 |
| OCES | 3160 | Ecology | 3 |
| Environmental Control Courses | | | |
| CENG | 4720 | Environmental Impact Assessment and Management Systems | 3 |
| CIVL | 4310 | Energy System Modeling for Buildings and Cities | 3 |
| CIVL | 4430 | Environmental Impact Assessment | 3 |
| CIVL | 4440** | Environmental Systems Analysis | 3 |

| | | | |
|---------------------------------------|--------|---|---|
| CIVL | 4450 | Carbon Footprint Analysis and Reduction | 3 |
| CIVL | 4640 | Introduction to Smart City Economics | 3 |
| MECH | 4350 | Indoor Air Quality in Buildings | 3 |
| Environmental Business Courses | | | |
| ECON | 2123 | Macroeconomics | 3 |
| ISOM | 2700 | Operations Management | 3 |
| ISOM | 4750 | Business Project Management | 3 |
| MGMT | 3120 | Managerial Leadership | 4 |
| MGMT | 3140 | Negotiation | 4 |
| MGMT | 4220 | Entrepreneurship and Innovation | 4 |
| Social Science Courses | | | |
| SOSC | 1850 | Understanding Society | 3 |
| SOSC | 2170** | Environment, Sustainability and Business: A Design Approach | 3 |
| SOSC | 2250 | Cognitive Psychology | 3 |
| SOSC | 2780** | Modernization and Social Change | 3 |
| SOSC | 2980 | Personality Psychology | 3 |
| SOSC | 3110** | Innovation and Technology in Hong Kong | 3 |
| SOSC | 3250 | Gender and Development | 3 |
| SOSC | 3260** | Sustainability Science: Policy Problems and Perspectives | 3 |
| SOSC | 3540 | Environmental Psychology | 3 |
| SOSC | 3880 | Social Inequality and Social Mobility | 3 |
| SOSC | 4290 | China's Sustainable Development | 3 |

****Remarks on course(s):**

- CIVL 4440: The course was last offered in 2017-18 and was deleted subsequently.
- SOSC 2170: The course was last offered in 2018-19 and was deleted subsequently.
- SOSC 2780: The course was last offered in 2018-19 and was deleted subsequently.
- SOSC 3110: The course was last offered in 2017-18 and was deleted subsequently.
- SOSC 3260: The course was last offered in 2019-20 and was deleted subsequently.