

(For students admitted in 2018-19 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.

Some courses can be used to fulfill both Major and University Common Core Requirements. Students may reuse a maximum of 6 credits of these courses to count towards both Requirements.

Students may use no more than 6 credits earned from courses offered in pure 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.

### Major Requirements

#### Fundamental Course(s)

|           |       |   | Credit(s)<br>attained |
|-----------|-------|---|-----------------------|
| COMP/ISOM |       | Note: COMP 1021 <u>OR</u> COMP 1022P <u>OR</u> COMP 1022Q <u>OR</u> ISOM 2010                   | 3                     |
| COMP      | 1021  | Introduction to Computer Science  | 3                     |
| COMP      | 1022P | Introduction to Computing with Java   | 3                     |
| COMP      | 1022Q | Introduction to Computing with Excel VBA  | 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)<br>attained |
|------|------|--|-----------------------|
| ENVR | 1001 | EVMT Orientation                               | 0                     |
| ENVR | 1170 | Big History, Sustainability and Climate Change | 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 | 3001 | Academic and Professional Development II                      | 1 |
| ENVR | 3110 | Sustainable Development                                       | 3 |
| ENVR | 3210 | Environmental Technology                                      | 3 |
| ENVR | 3220 | Energy Resources 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)

|                               |      |   | <b>Minimum credit(s) required</b> |
|-------------------------------|------|---|-----------------------------------|
| 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                          | 1004 | Chemistry in Everyday Life  | 3                                 |
| CHEM                          | 1010 | General Chemistry IA  | 3                                 |
| CHEM                          | 1020 | General Chemistry IB  | 3                                 |
| LIFS                          | 1010 | Appreciation of Biological Sciences   | 3                                 |
| LIFS                          | 2060 | Biodiversity  | 3                                 |
| LIFS                          | 3160 | Ecology   | 3                                 |
| Environmental Control Courses |      |   |                                   |
| CENG                          | 4720 | Environmental Impact Assessment and Management Systems  | 3                                 |
| CIVL                          | 4430 | Environmental Impact Assessment   | 3                                 |
| CIVL                          | 4440 | Environmental Systems Analysis  | 3                                 |

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|                                |      |   |   |
|--------------------------------|------|---|---|
| CIVL                           | 4470 | Air Quality Control and Management                          | 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                           | 2780 | Modernization and Social Change                             | 3 |
| SOSC                           | 3110 | Innovation and Technology in Hong Kong                      | 3 |
| SOSC                           | 3150 | Science, Technology and Environment                         | 3 |
| SOSC                           | 3260 | Sustainability Science: Policy Problems and Perspectives    | 3 |
| SOSC                           | 3540 | Environmental Psychology                                    | 3 |
| SOSC                           | 4290 | China's Sustainable Development                             | 3 |
| SOSC                           | 4320 | Policy Analysis and Design for Sustainable Development      | 3 |