**Environmental Science Major**

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| REQUIRED COURSES: (34 credits) |
|  | Credits | Course Title | Requirements / Notes |
|  | BIOL 160 | 4 | Ecology and Evolutionary Biology | Co-requisite: CHEM 101 |
|  | CHEM 101 &CHEM 102or CHEM 103 | 444 | General Chemistry IGeneral Chemistry IIChemical Principles  | CHEM 101 or equivalent |
|  | ENST 210 | 4 | Human Impacts on the Environment |  |
|  | ENST 285 | 2 | Environmental Practicum |  |
|  | ENST 301 | 2 | American Environmentalism | ENST 210 |
|  | ENST 302 | 2 | Environmental Law | ENST 210 |
|  | GEO 120 | 4 | Earth Systems | or GEO 151 or 153 |
|  | GEO 252 | 4 | Geomorphology | GEO 120 or 151 or 153 |
|  | GEO 260 | 4 | Geographic Information Systems & Cartography |  |
|  | GEO 395 | 4 | Seminar in Geology, Geography, and Environment |  |

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| NATURAL RESOURCES TRACK (22 credits) |  | NATURALIST TRACK (22 credits) |
|  | Cr. | Course Title |  |  | Cr. | Course Title |
|  | GEO 215 | 4 | Mineralogy |  |  | GEO 152 | 4 | Historical Geology |
|  | GEO 317 | 4 | Sedimentation and Stratigraphy |  |  | BIOL 161 | 4 | Cellular & Genetic Systems |
|  | GEO 325 | 4 | Hydrogeology |  |  | BIOL 344 | 4 | Vertebrate Biology |
|  | GEO 361 | 4 | Advanced GIS |  |  | BIOL 346 | 4 | Plant Taxonomy |
| Elective – at least 6 credits from:  |  | Elective – at least 6 credits from: |
| BIOL 345; CHEM 210, 240, 270; ENST 385; GEO 181, 251, 304, 312, 322, 323, 341, 362; PHYS 221, 222; field courses at the Au Sable Institute; approved interim course. |  | Two electives from BIOL 200, 323, 338, 341, 345, 354; ENST 385; GEO 181, 250, 251, 312, 313, 322, 323, 361; RECR 305; SCES 214, 313, 314; field courses at the Au Sable Institute; approved interim course. |
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| COGNATE: (4 credits) |
|  | MATH 132 or STAT 143or STAT 145 | 444 | Calculus for ManagementIntroduction to Probability and StatisticsBiostatistics |  |