

ENVIRONMENTAL SCIENCES MINOR

For Bachelor of Arts and Bachelor of Science

The Environmental Sciences Minor is an interdisciplinary minor that integrates the subjects of Biological Sciences, Chemistry, and Earth and Planetary Sciences. The minor requires courses in the foundations of environmental sciences, the principles of ecology, and geographic information systems (GIS). Students also choose from a selection of courses that cover topics in environmental science like aquatic ecosystems, ecology, environmental chemistry, and geosciences.

The Environmental Sciences Minor requires 18 credits (six courses) with a minimum of six credits (two courses) at the 300- or 400-level. Students are limited to a maximum of three courses from within one discipline to fulfill minor requirements. The requirement to take courses from different disciplines helps ensure the program's interdisciplinary nature.

| Code | Title | Credits |
|---|--|---------|
| BIOL 208 | Principles of Ecology | 3 |
| EASC 221 | Introduction to Geographic Information Systems | 3 |
| ENVS 300 | Principles of Environmental Science | 3 |
| Choose 9 credits (3 courses) from the following with no more than 6 credits (2 courses) in any one discipline (BIOL, CHEM, EASC, or ENVS) | | 9 |
| BIOL 310 | Freshwater Ecology | |
| BIOL 312 | Terrestrial Ecology | |
| BIOL 314 | Population Ecology | |
| BIOL 316 | Community Ecology | |
| BIOL 361 | Marine Biology | |
| BIOL 365 | Tropical Rainforest Ecology | |
| BIOL 367 | Conservation Biology | |
| BIOL 410 | Techniques in Field Ecology | |
| BIOL 414 | Invasion Ecology and Management | |
| BIOL 422 | Methods in Experimental Ecology | |
| BIOL 467 | Advanced Conservation Biology | |
| BIOL 477 | Contemporary Issues in Freshwater Ecology | |
| CHEM 320 | Introduction to Geochemistry ¹ | |
| CHEM 322 | Introduction to Biogeochemistry ² | |
| CHEM 372 | Environmental Chemistry | |
| CHEM 472 | Advanced Environmental Chemistry | |
| CHEM 474 | Environmental Analytical Chemistry | |
| CHEM 484 | Sustainable and Green Chemistry | |
| EASC 225 | Introduction to Geomorphology | |
| EASC 226 | Introduction to Soil Science | |
| EASC 238 | Geology of Natural Resources | |
| EASC 271 | The Oceans | |
| EASC 320 | Introduction to Geochemistry ¹ | |
| EASC 322 | Introduction to Biogeochemistry ² | |
| EASC 334 | Remote Sensing | |
| EASC 373 | Anthropogenic Climate Change | |
| EASC 375 | Paleoclimatology | |
| ENVS 398 | Independent Study | |

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| ENVS 492 | Environmental Sciences Work Integrated Learning |
| ENVS 495 | Special Topics in Environmental Sciences |
| ENVS 498 | Advanced Independent Study |

Total Credits **18**

1

Credit can only be obtained in one of CHEM 320 (<https://calendar.macewan.ca/search/?P=CHEM%20320>) or EASC 320 (<https://calendar.macewan.ca/search/?P=EASC%20320>)

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Credit can only be obtained in one of CHEM 322 (<https://calendar.macewan.ca/search/?P=CHEM%20322>) or EASC 322 (<https://calendar.macewan.ca/search/?P=EASC%20322>).