



# THE UNIVERSITY OF WINNIPEG

For more information visit [www.uwinnipeg.ca](http://www.uwinnipeg.ca) or contact a student recruitment officer at [welcome@uwinnipeg.ca](mailto:welcome@uwinnipeg.ca) or 204.786.9844. In any case where The University of Winnipeg Course Calendar and this fact sheet differ, the current Calendar takes precedence.

## Applied Environmental Studies

*Applied Environmental Studies, offered jointly by The University of Winnipeg and Red River College, is designed to provide you with both theoretical and applied knowledge in environmental analysis and problem solving. There are 4-year and 5-year versions of the program.*

**4-year Program:** Students who enrol in the 4-year program will attend The University of Winnipeg in years one, two, and four, and will attend Red River College in year three. Those who successfully complete the 4-year program will receive a **joint degree parchment** from The University of Winnipeg and Red River College.

**5-year Program:** Students who enrol in the 5-year program will attend The University of Winnipeg in years one, two, and five, and Red River College for years three and four. The 5-year structure includes the benefit of a full co-op work term, consisting of a minimum of 16 weeks of full-time, paid work experience. Students who successfully complete the program will receive a **4-year Bachelor of Science degree** from The University of Winnipeg and an **Environmental Protection Technology diploma** from Red River College.

### SAMPLE CAREERS

This program is specifically designed to serve the needs of health and science-based industries in Manitoba. With many thriving companies and agencies - such as Apotex, Biovail, McCains, Laidlaw, Agrifoods International, Enviro-Test Laboratories, Can Amesta Foods, National Research Council, the Federal Disease Control/Virology Laboratory, Canadian Agra Corporation, Louisiana Pacific, Cabot Performance Materials, BFI Waste Systems, and Prairie Harvest Canada Ltd., to name a few - this need will continue in the coming years.

There continues to be growth in the environmental job markets. The Environmental Careers Organization (ECO) Canada projects 16% growth over the next five years, in contrast to 8% growth in the overall Canadian job market. Specific areas of growth are environmental education and water security and protection. For more career information, visit ECO Canada's website: [www.cchrei.ca](http://www.cchrei.ca)

### SAMPLE COURSES

**Human-Environmental Interactions** is a first-year course that illustrates the complexity and diversity of environmental issues. The central theme is "understanding natural processes in the environment" as a means of measuring human impact.

**Environmental Chemistry** is a third-year Chemistry course that provides students with an understanding of the behaviour of chemicals in the environment and includes a discussion of environmental contaminants.

**Environmental Impact Assessment** is a compulsory course for all science majors. Students explore the methodology of environmental impact assessment (EIA). Each student learns how to complete their own EIA, working both internally and externally, often alongside individuals with professional expertise in the students' chosen topic.

### MORE SAMPLE COURSES

Biology of Vascular Plants  
Cells and Cellular Processes  
Environmental Ethics

Introduction to Atmospheric Science  
Introduction to Earth Science  
Law and the Environment

Principles of Ecology  
Soil-Vegetation Systems  
Waste Management

## WHAT OUR STUDENTS SAY...

"The Applied Environmental Studies Stream in DESS familiarized me with the complex and evolving nature of environmental issues, which extend beyond the scientific domain into the social, economic and the ethical. It's a well-rounded education where I was prepared for the realities of employer demand ." – *Bryan Kehler (B.Sc.2011)*

## STUDENT LIFE

- Students can join the Environmental Studies and Geography Student Association (GESA) and other student-based environmental organizations.
- Students have put their learning into practice by getting involved with SUNSET (Sustainable University Now, Sustainable Earth Tomorrow), helping to lead The University of Winnipeg's campus sustainability project.

## SAMPLE FIRST YEAR

**NOTE:** *This sample first year is representative of the courses you may take. For many of our programs, you may choose another set of courses and still be well on your way to a degree. Also, for most programs you do not have to take 30 credit hours (five full courses) in your first year.*

ENV-1600(3) Human-Environmental Interactions (Introductory course for Environmental Studies program in Arts or Science)

BIOL-1115(3) Cells and Cellular Processes

BIOL-1116(3) Evolution, Ecology, and Biodiversity

CHEM-1111(3) Introduction to the Chemical Properties of Matter

CHEM-1112(3) Basic Principles of Chemical Reactivity

ECON-1104(3) Introduction to Economic Theory

GEOG-1201(3) Introductory Atmospheric Science

GEOG-1202(3) Introductory Earth Science

RHET-1106(3) Academic Writing: Links with the Disciplines-ENV or any other section of Academic Writing (if required)

6 credit hours Humanities

**Note:** *PHIL-2233(3) Environmental Ethics counts both as a Humanities course and as a core course in Environmental Studies.*

## REQUIRED HIGH SCHOOL COURSES

In addition to meeting The University of Winnipeg's general admission requirements, you must have **Chemistry 40S** and either **Pre-Calculus Mathematics 40S** or **Applied Mathematics 40S**.

## HOW TO APPLY – Domestic Student

Apply online at [uwinnipeg.ca](http://uwinnipeg.ca) or pick up an Application for Admission from your high school counsellor's office or the Admissions Office at The University of Winnipeg. To meet Scholarship deadline submit your application and \$80 application fee by **March 1st**

## HOW TO APPLY – International Student

Apply online at [uwinnipeg.ca/index/intl-apply](http://uwinnipeg.ca/index/intl-apply) and submit all official documents by mail. To meet Scholarship deadline submit application, fee, and documents by **March 1st**. International application fee is \$100, which includes a one-time courier fee.

## CONTACT US

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