



## Bachelor of Science in Environmental Sciences – BSc(Env)

Start your career as an environmental problem-solver by studying a wide range of courses from a variety of disciplines in this unique program. Gain the knowledge you need to balance in-depth science within a broader context of societal needs, economics and politics.

### SCIENTIFIC FOUNDATION

- multidisciplinary approach delivered through the expertise of several departments and colleges at the University of Guelph
- focus on specific principles, management, and decision making skills for the application of scientific knowledge to environmental problems and the evaluation of appropriate environmental policies
- practical perspective based on identifying and resolving real world problems
- emphasis on group work and the development of communication skills

### SENSE OF COMMUNITY

As a BSc(Env) student, you have access to faculty for academic advising and program counselling, an ESSE lounge where you'll find your fellow students, and a variety of volunteer opportunities. Students have a strong sense of community and usually become very involved.

### ABOUT ESSE

The Environmental Sciences Student Executive (ESSE) provides social and extracurricular learning activities that promote pride and a sense of community in the program as well as acting on behalf of the BSc(Env) students on committees within the University and the local community. Environmental Sciences students host a public symposium each year that features world-renowned speakers and a series of workshops on topics that incorporate the natural, physical and social sciences. In January 2011, the symposium's theme is *Issues of the Arctic*.

### ENVIRONMENTAL CAREERS

There are many career opportunities within this growing job market.

- Retirement of environmental workers will create over 100,000 vacancies over the next decade.
- The levels of education, experience, and skills for environmental workers are high. Thirty-six percent of environmental workers have a bachelor's degree or higher (compared to 22% of the employed Canadian labour force).
- Over the past year (March 2009-March 2010), 39% of environmental employers hired or attempted to hire environmental program graduates as employees. Firms' open positions were roughly evenly split between positions left vacant by a worker who left the firm and newly created positions.
- Environmental work is highly interdisciplinary in nature as most environmental employers. Over 90% indicated that their employees were involved in activities in more than one National Occupational Standard category. (Source: *ECO Canada at www.eco.ca*)

There is a high demand for our graduates at all levels of government as well as in industry and consulting. Careers you can pursue with a BSc(Env) degree include:

Air Quality Analyst	Environmental Policy Advisor
Alternative Energy Developer	Hydrologist
Conservation Biologist	Remediation Specialist
Environmental Assessment Analyst	Soil Conservationist



## PROGRAM INFORMATION

At Guelph, the BSc(Env) degree program is unique in balancing three key components – a common first year, a core curriculum and a choice of majors. Together these components provide you with the knowledge and skills you'll need to start your environmental career.

### The Foundation Year

The common first year gives you a firm foundation in science before you focus on your chosen field of study.

### The Core Curriculum

This group of required courses extends over the four years of your program, allowing you to apply the depth of knowledge and skills you gain from your major into a broader environmental context. Core courses include a biophysical systems approach to environmental problem solving, economic, political, legal, and philosophical aspects of the environment and its issues. Communication skills are emphasized.

### Majors

To manage environmental systems, you will need in-depth knowledge and skills. A selection of majors are available with this in mind. These include:

- Earth and Atmospheric Science
- Ecology
- Environmental Economics and Policy
- Environmental Geography
- Environmental Biology
- Natural Resources Management

## GETTING INVOLVED

- co-op program
- international academic exchange
- study abroad semesters
- internships
- campus work experience
- consulting with community organizations
- undergraduate research opportunities

## ADMISSION REQUIREMENTS

Ontario secondary school students applying to the program require English (ENG4U), Advanced Functions (MHF4U), 2 courses in Biology (SBI4U), Chemistry (SCH4U), Physics (SPH4U), and 2 additional U/M courses. Please see the admission website for national and transfer admission requirements as well as estimated admission averages.

**Note:** Biology, Chemistry, and Physics are strongly recommended. Applicants who lack one of these credits will be required to take the high school equivalency course prior to taking the degree's university-level course requirements.



For more program information  
on the Bachelor of Science  
in Environmental Sciences, contact:

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<http://www.oac.uoguelph.ca/counselling/bsc-env/>

For further University of Guelph  
Admissions information, contact:

Admission Services  
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