Why Environmental Science at Algoma U?

There are many reasons to study Environmental Science, and many reasons why you should study it at Algoma University. First, the human population is increasing exponentially, straining food supplies, degrading the environment, and destroying natural habitat. The problems of the future require dedicated and skilled Environmental Scientists. Reports indicate that the supply of workers in environmental industries will not meet demand. As such, the outlook for employment in the field of environmental science is excellent. Environmental Science studies human impacts on the environment. Where better to study this than at Algoma U, which resides in a city with major industry set on the shores of Lake Superior? If you want to study the environment, why not do it by living on its shores? Algoma U is located in Sault Ste. Marie, a city of 75,000 people in Northern Ontario. “The Soo,” as locals call it, has all the amenities of a big city — shopping, entertainment, sports teams, festivals, and cultural activities — but without the hassle of traffic.

There are many reasons to study Environmental Science, and many reasons to study it at Algoma U. Our science courses (Biology, Chemistry), our students can take courses related to the environment that span disciplines (Philosophy, Economics, Politics and Geography). Algoma University’s Environmental Science program prepares its students to work in collaborative research teams to critically evaluate and address hypotheses. Students also have the option of completing an honours thesis project in which they work with a supervising faculty member to design and execute an advanced research project. Our thesis course is challenging, but our students benefit greatly from it. Many students in Algoma’s science programs publish their thesis research in scientific journals.

Finally, Environmental Science integrates multiple disciplines to address some of the most profound and complex concerns faced by society. In order to begin addressing these challenges, we need thinkers who can integrate scientific knowledge with practical skills in a variety of disciplines. Aside from our science courses (Biology, Chemistry), many students take courses in the Arts and Social Sciences (Philosophy, Economics, Politics and Geography). Algoma University’s Environmental Science program prepares its students to work in collaborative research teams to critically evaluate and address hypotheses. Students also have the option of completing an honours thesis project in which they work with a supervising faculty member to design and execute an advanced research project. Our thesis course is challenging, but our students benefit greatly from it. Many students in Algoma’s science programs publish their thesis research in scientific journals.

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LEARNING OUTCOMES

- Think critically, applying evidence to support arguments and decision making.
- Understand the key concepts and theories in the environmental sciences.
- Learn to effectively research scientific topics from multiple sources.
- Explore the current state of knowledge in the environmental sciences and recognize the interrelationships between natural and human processes.
- Apply practical laboratory and field sampling skills in the collection and analysis of environmental data to address hypotheses.
- Apply relevant numerical skills to the analysis of data relevant to the environmental sciences.
- Communicate ideas in environmental science effectively in both written and oral format to a variety of audiences.

Gain Experience.

Experiential Learning is “learning by doing.” There are many experiential learning opportunities in the classroom and in the community. Students in the Environmental Science program have participated in labs, research projects, simulations, experiments, and a capsule thesis project. A full inventory of Environmental Science experiential learning opportunities is listed in this Experience Map.

Skills Employers are Seeking

With over 2,000 business leaders surveyed, the top skills they would like to see in their employees include:

1. Leadership
2. Communication
3. Collaboration
4. Time Management
5. Understanding the impact of technology
6. Consistent global training

Admission Requirements

ENG4U, MHF4U, 2UM Sciences (Biology & Chemistry Recommended). Minimum average of 65%.

Applying to Algoma U is simple. We’re ready to help answer all of your questions and more. Before you know it, you’ll be walking across campus to your first class.

Questions? info@algomau.ca
ENVIRONMENTAL SCIENCE

GAIN EXPERIENCE

1ST YEAR
- ENVS1006*
- BIOC1006/1007
- CHEM1006/1007
- MATH1000/1006
- PHYS1001/1006

* 6 additional credits from Group I or Group II
* Minimum average of 60% required.

GET EXPERIENCE
- Make an appointment with your Faculty Advisor in early February to develop your academic plan.
- Questions about rules and regulations in your program? See your Academic Advisor in Student Success Central.
- Want to enhance your degree? Consider a minor or certificate.
- Attend a historical campus tour.
- Get involved with volunteer opportunities on campus.
- Consider joining one of the many clubs through AUSU.
- Volunteer off campus. Reach out to local organizations such as the Ministry of Natural Resources. For more volunteer opportunities visit Volunteer Sault Ste. Marie.
- Think about running for a position with the Algoma University Students' Union.
- Update your LinkedIn profile and connect virtually with alumni, classmates, faculty and professionals in the field.
- Networking is the most important technique to get jobs today.
- Get involved with other cultures on campus or improve your language skills taking some of our Modern Language courses or interacting with International students.
- Consider Summer Study Abroad or Internship opportunities. Gain experience, knowledge and have the opportunity to tour a new country while studying and working.

EXPERIENCE MAP

2ND YEAR
- Use the skills gained from COOP0101 to apply for a co-op placement or summer job. Continue to keep an eye out for job opportunities on your Student Portal.
- Listings include general employment, local and local co-op opportunities, on-campus employment and volunteer opportunities.
- Volunteer off campus. Reach out to local organizations such as the Ministry of Natural Resources. For more volunteer opportunities visit Volunteer Sault Ste. Marie.
- Get involved with other cultures on campus or improve your language skills taking some of our Modern Language courses or interacting with International students on campus!
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- Consider Summer Study Abroad or Internship opportunities. Gain experience, knowledge and have the opportunity to tour a new country while studying and working.

3RD YEAR OR FINAL YEAR
- Complete degree requirements and ensure you've met all deadlines for post-graduate options.
- Apply to graduate.
- Complete a thesis and present it to fellow classmates, faculty and other AU community members.
- Take advantage of the New Graduate Transition Program.
- Think about joining professional associations such as the Ontario Environment Industry Association and the Canadian Institute for Environmental Law and Policy.
- Join groups on LinkedIn reflecting specific careers or topics of interest in Environmental Science.

4TH YEAR OR FINAL YEAR
- Apply for co-op opportunities to gain experience and improve your network.
- Get involved with other cultures on campus or improve your language skills taking some of our Modern Language courses or interacting with International students.
- Consider Summer Study Abroad or Internship opportunities. Gain experience, knowledge and have the opportunity to tour a new country while studying and working.
- Complete a thesis and present it to fellow classmates, faculty and other AU community members.
- Take advantage of the New Graduate Transition Program.
- Think about joining professional associations such as the Ontario Environment Industry Association and the Canadian Institute for Environmental Law and Policy.
- Join groups on LinkedIn reflecting specific careers or topics of interest in Environmental Science.

AFTER GRAD?
- After completing a degree in Environmental Science, students are open to an array of career paths and opportunities.

Enroll in the New Graduate Transition Program at Algoma University Students' Union

Many of our students pursue graduate programs and go on to pursue exciting careers in many areas.

Graduates can and have pursued the following careers:
- Environmental Consultant
- Environmental Education
- Bioclimatologist
- Geographer
- Hydrologist
- Ecologist
- Meteorologist
- Entomologist
- Environmental Technician
- Environmental Risk Management
- Project Manager

Always remember to put your health first! Hit the GLC for some calming Yoga or an intense workout or take a walk around campus to clear your mind.

We're here for you. Visit the Learning Centre for information on free tutoring and learning strategies.