

## EXPERIENCE MAP



### 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 fields is increasing, and that supply is not meeting 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 in a place where you can easily access large and small river systems, large and small lakes, as well as Canada's Great Boreal forest? Algoma's Environmental Science program is designed to teach students to be

environmental scientists. This means students will learn and receive practical training in the scientific method, while getting plenty of hands-on experience. Many of our courses have weekly labs, and two internship programs are available within the program to allow students the chance to work with environmental scientists, or in related industries. 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.

### COURSE HIGHLIGHTS

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), 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 investigate solutions to environmental challenges. Graduates will be well-positioned for leadership roles in Canada's environmental workforce or for further study in a variety of fields.

### 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.

### WHY STUDY AT ALGOMA U IN SAULT STE. MARIE?

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. We're lucky enough to live in a city surrounded by the great outdoors. With Lake Superior and the St. Mary's River literally just steps from our front door, there's always something to do. You can catch some sun at the beach or walk our beautiful boardwalk. With the highest elevation in Ontario, Searchmont Resort is a popular winter destination for our students, offering great alpine skiing and snowboarding.

### ADMISSION REQUIREMENTS

ENG4U, MHF4U, 2U/M 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.

[algomau.ca/apply](http://algomau.ca/apply)

### GAIN EXPERIENCE.

Experiential Learning is "learning by doing." There are many experiential learning opportunities in the classroom, lab 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

### USING THIS EXPERIENCE MAP

Making a plan in first year will lead to your success. We're ready to assist you with your plan.

This Experience Map offers suggestions, which is a guide to explore many options. Understanding where you want to be will help you make the correct decisions to get you there.

We're also here to help you with your physical and mental well-being. We want you to succeed in all aspects of your life. For further assistance, visit Student Success Central, in NW307.

Questions?  
[info@algomau.ca](mailto:info@algomau.ca)



[algomau.ca/environment](http://algomau.ca/environment)



[algomau.ca/enviroment](http://algomau.ca/enviroment)

## 1<sup>ST</sup> YEAR

## 2<sup>ND</sup> YEAR

## 3<sup>RD</sup> YEAR OR FINAL YEAR

## 4<sup>TH</sup> YEAR OR FINAL YEAR

## AFTER GRAD?

**GET ASSISTANCE**

ENVS1006\*  
BIOL1506/1607 | CHEMI1006/1007  
MATH1036 OR MATH1037 | PHIL116

ELECTIVES:  
6 additional credits from Group I or Group II  
\*Minimum average of 60% required.  
Meet with your Academic Advisor to select courses.

Make an appointment with your Faculty Advisor by the end of the fall term to develop your academic plan. \*This is highly recommended for transfer students.

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**.

Continue to meet with your Faculty Advisor to ensure you are meeting program requirements and academic goals.

This is a good time to investigate a Master's Degree, Post-graduate Diploma or Bachelor of Education. Please make an appointment in Student Success Central for full details.

Complete degree requirements and ensure you've met all deadlines for post-graduate options.  
**Apply to graduate.**

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

**GET EXPERIENCE**

Take COOP0101 as a first step to be enrolled in the co-op program at Algoma University. Check your **Student Portal** for job postings.

Visit the **Experiential Learning HUB** to learn about exciting opportunities! Start connecting to career opportunities in your first year by joining the **Career Link Program**.

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/non-local co-op opportunities, on-campus employment and volunteer opportunities.

Attend the fourth-year thesis presentations to gain knowledge to prepare yourself to complete your thesis project.

Participate in campus recruiting for summer work.

Apply for co-op opportunities to gain experience and improve your network.

Complete a thesis and present it to fellow classmates, faculty and other AU community members!

Take advantage of the New Graduate Transition Program!

Many of our students pursue graduate programs and go on to pursue exciting careers in many areas. Graduates can and have pursued:

**GET CONNECTED**

Get involved with volunteer opportunities on campus with the **Food Bank**, the **Thunder Street Team** or apply to be an **Orientation Week Leader**. Come support our **Varsity Thunderbird** athletic teams and participate in **Intramurals** at the GLC.

Consider joining one of the many **clubs** through AUSU. Be sure to sign up for one of our historical campus tours.

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 Environmental Science field.

Networking is the most important technique to get jobs in today's society – over 75% of jobs come from networking.

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.

- Researcher
- Environmental Consultant
- Environmental Education

**GET THINKING GLOBALLY**

Attend a **Study Abroad** info session and consider studying in China, Spain, South Korea, Mexico, France, Austria or Japan and see which places appeal to YOU.

Gather information on the various global opportunities. Algoma U is proud to offer **Study Abroad** and the Student Work Abroad Program.

Are you interested in doing a study exchange? Check out **Study Abroad** and attend an information session to get the info you need and to ensure your application is submitted by the deadline.

Your next adventure is waiting!

Improve your language skills through some of our Modern Language courses or learn about another culture.

Consider doing a **Short-Term Summer Study Abroad** opportunity gain experience, knowledge and have the opportunity to tour a new country while working!

If you are an international student looking to stay in Canada to work, talk to a **Student Success Academic Advisor**.

To learn more about working in Canada, volunteer at **Discover the Sault** through the Economic Development Centre.

- Biochemist
- Oceanographer
- Biologist
- Ecologist
- Meteorologist
- Entomologist

**GET READY FOR LIFE AFTER GRADUATION**

Check out **Career Cruising** (login: algomauc password: saultsternarie) to determine potential career paths that you can pursue in the future.

Bring your resume to the next level! **Optimal Resume** is an excellent resource to develop your resume and cover letter. Visit **Career Services** in the **Experiential Learning HUB** for assistance.

**Lynda.com** is available to help you learn the skills you need to achieve your full potential. Once you complete a learning path it will automatically be displayed as an accomplishment on your **LinkedIn** profile.

Use **Optimal Resume** to improve your resume and cover letter as well as practice your interview skills.

Start focusing on areas of interest and research education requirements for your career path.

Reach out to your **Academic Advisor**, **Student Success Central** or your faculty advisor to assist you in applying to a Master's Degree, Post-graduate Diploma or Bachelor of Education.

Take some time to create or update your resume and **LinkedIn** profile.

Use the resources available in **Career Services** to learn about the many job opportunities available to you upon graduation.

Attend the Career Conference to get some professional advice from the **Sault Community Career Centre** on your resume, job searching strategies and interview tips.

- 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 walks around campus to clear your mind.

If you're feeling depressed, anxious or upset don't worry YOU ARE NOT ALONE. – Download the **I.M. Well App** or call 1-877-234-5327 for 24/7 free counselling or book an appointment with an on-campus counsellor by emailing [healthservices@algomau.ca](mailto:healthservices@algomau.ca). We're here for you. Visit the Learning Centre for information on free tutoring and learning strategies.