Students in our program have the option of delving deeper into a specific area of interest in our honours thesis course. Thesis students work directly with a faculty supervisor to design and execute a scientific research project. Students collect and analyze their data, then present their results in our Thesis Research Colloquium. Many students have gone on to present their research at national and even international conferences and have published their research in peer-reviewed scientific journals, a rarity for undergraduates. It is no surprise that many of our graduates have been accepted to graduate schools and professional programs (e.g. Medicine). We believe that our program gives students truly unique opportunities.

**LEARNING OUTCOMES**

- Understand the key concepts and theories in the biological sciences.
- Explore the current state of knowledge in the biological sciences and investigate innovative solutions to biological problems using an integrative approach.
- Apply versatile and comprehensive knowledge of the theory, principles, and concepts in the biological sciences and foundational scientific disciplines in an integrative manner.
- Understand and analyze complex issues by applying scientific data in a multidisciplinary context.
- Generate novel research questions and hypotheses, collect and analyze data, and formulate and defend appropriate conclusions, using a rigorous scientific methodology.
- Think critically, particularly with respect to science and technology-based decision making.
- Communicate scientific information effectively in both written and oral format to a variety of audiences.
- Participate in collegial peer review processes.
- Contribute as an effective team member in collaborative and multidisciplinary research teams, both as a participant and as a leader.

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 Biology program have participated in labs, internships, and conferences. A full inventory of Biology 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

**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 70%.

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

**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
Biology

1st Year

- BIDL1506*/1507*, CHMI1006/1007
- 6 credits from Group II - Humanities
- 6 credits from Group III - Social Sciences
- Meet with your Academic Advisor to select courses.

2nd Year

- 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.

3rd Year or Final Year

- 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.

4th Year or Final Year

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

Get Thinking Globally

- Attend the fourth-year thesis presentations to gain knowledge.
- Apply for co-op opportunities to gain experience and improve your network.

Experience Map

- Volunteer for 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.

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

- 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.

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

- Your next adventure is waiting!

- Check out Career Cruising (login: algomauc password: saultmo) 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.

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

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

After Grad?

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

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

- Graduates can and have pursued:

  - Research
  - Health Care
  - Education
  - Environmental Management and Conservation
  - Museums, Aquariums, Zoos, Parks, and Nature Centres
  - Biotechnology
  - Forensic Science
  - Politics and Policy
  - Business and Industry