

EARTH SCIENCE HBESc, BSc, BSc/BED

EXPERIENTIAL MAJOR MAP



FIRST YEAR

MIDDLE YEARS

FINAL YEAR

ACADEMIC SUCCESS



DEVELOP

a Course Plan and Build Academic Skills

- Check out the [Academic Support Zone](#) for free writing and tutoring support.
- Review program requirements on the [Academic Calendar](#) and if you have questions, meet with a [Student Central](#) Professional.
- Consider elective courses that interest you. Consider areas you may want to study in the future - plan getting necessary prerequisites for future courses.
- Familiarize yourself with your [myInfo](#) account, self help and degree audit tools.
- Understand the [Academic Regulations](#).
- Needing academic accommodations? Meet with [Student Accessibility Services](#).
- Think about whether you want to take on a second degree; you have many options, including business or education!
- Familiarize yourself with the requirements for professional practice as a geoscientist by visiting the [Association of Professional Geoscientists of Ontario](#) (PGO) website.

- Attend Academic Skills Prep Sessions offered by the [Academic Support Zone](#).
- Meet with your Chair or a [Student Central](#) Professional to discuss your academic progress, and current/future courses.
- Consider [post-degree programs](#) that may require specific courses or academic requirements - create a plan.
- Ensure your degree audit is accurate and check your audit anytime you add or drop a course.
- Running into academic challenges? Meet with [us](#) early.
- Ensure you are meeting the requirements for professional practice as a geoscientist
- Build field work skills in the third year field course held at Pukaskwa National Park.
- Consider building GIS skills by taking a GIS course as an elective.
- Attend Geology department seminars and thesis presentations to learn more about Earth Science.
- If completing a thesis, arrange for a faculty supervisor, and reach out to discuss ideas.
- Reach out to faculty regarding questions about post-grad career paths or education.

- Meet with your Chair or [Student Central](#) to ensure you have completed and are in-progress to complete degree requirements needed for graduation.
- Submit your Intent to Graduate (on [myInfo](#)).
- RSVP for convocation ceremonies.
- Understand application requirements, processes and deadlines for future programs of interest.
- Sit down with your Chair to review your degree audit for graduation to ensure you are on track.
- Understand application requirements, processes and deadlines for future programs of interest.
- If completing an honours degree, write and present a thesis to demonstrate your skills in scientific research, written communication, oral communication, and project management.
- Submit your final thesis with all required signatures. Email a PDF to the Library for archives.

ACADEMIC SKILLS CHECKLIST

- Review your program requirements on the [Academic Calendar](#) and Degree Audit.
- Visit the [Academic Support Zone](#). Attend their workshops and take advantage of free tutoring and writing services.
- Ensure degree requirements are being met, and if needed meet with the Chair of the Department.
- Develop professional contacts with [faculty](#).
- Look into and engage with research opportunities.
- Look into concentrating your interests in particular fields. Research where your interests can take you.
- Work on your oral and written communication skills; ensure you implement feedback from professors.
- Want to boost your employability profile, earn certificates, and add to your resume? [Take courses](#) designed to help you achieve soft skills; the types of skills most important to employers!



CONNECT

and Gain Experience with the Local and Global Community

- Register in courses with in-class experiential learning opportunities such as case studies and labs.
- Meet the Chair of your Department - get to know them, and let them get to know you.
- [Join a free club](#) or society to expand your interests and connect with peers.
- Join the [Geological Association of Lakehead University](#) (GALU).
- Begin gaining relevant experience in areas of interest to you.
- Join different organizations to build connections and experience; examples include [Eco Canada](#), the [National Association of Environmental Professionals](#) and more
- Get involved in science outreach programs such as [Science Olympics](#) and [Superior Science](#).

- Build professional networks with mentors, employers, alumni, faculty, and peers.
- Develop networks and connect with your academic professors. Start by visiting during office hours!
- Determine your post-graduation path and build your network in your chosen field. Think about whether you want to pursue further education after graduation and begin gaining relevant experience.
- Consider attending the annual [Prospectors and Developers Conference and Trade Show](#) and the [Northwestern Ontario Prospectors Association](#) meeting.
- Look into Lakehead's [Work Study](#) program to gain valuable experience.
- Become a member of the Geological Association of Lakehead University (GALU).
- Try and gain experience as a field assistant over the summer. Inquire with graduates and faculty if they are looking for assistance.

- Consider working on applied research, such as a thesis project.
- Join networking platforms such as [LinkedIn](#) and [Ten Thousand Coffees](#).
- Communicate interest in career-related opportunities with your professors.
- [Attend](#) career fairs and employer events.
- Consider a leadership role in a student club or organization.
- Consider presenting your thesis findings or research at an academic conference.
- The [Science and Environmental Studies \(SES\) Undergraduate Conference Travel Award](#) can aid you if you are interested in giving a presentation or attending a professional workshop.
- Look into different associations to help network, learn about your industry, and gain benefits of affiliation. Some examples include the [Geological Association of Canada](#) (GAC), and [Canadian Federation of Earth Sciences](#) (CFES)

EXPERIENTIAL LEARNING CHECKLIST

- Join [Lakehead Connect](#) Networking and Mentorship Program to speak to Alumni and Peers!
- Look into internships or summer placement opportunities.
- Discuss potential lab or research opportunities with faculty.
- Talk to a Student Success Advisor about starting your [Co-Curricular Record!](#)
- Build your network in the areas of interest to you.
- Join GALU and attend their events to connect with peers.
- Consider studying abroad through Lakehead's [Study Abroad](#) Program.
- Practice effective oral communication through class discussions and presentations.
- If you're an international student, check out Lakehead International [resources and programs](#).
- If you identify as Indigenous check out [Indigenous Initiatives](#) and the [Indigenous Student Services Centre](#).



FIRST YEAR

MIDDLE YEARS

FINAL YEAR

ACADEMIC SUCCESS



PREPARE

for Postgraduation or Career

- Visit the [Career Zone](#) to find out about the career services offered.
- Check out the job bank on [MySuccess](#) to learn about summer job and on campus opportunities in your program.
- Look into summer jobs and work-study opportunities. If you are interested in a research position, get connected with faculty.
- It's never too early to start gaining experience in the field of Earth Science. Reach out to environmental consulting companies and watch for opportunities with provincial ministries to gain experience as a field and/or lab assistant.

- Start connecting with employers through recruitment [events](#) such as career fairs and employer visits.
- Join [Lakehead Connect](#) to make connections with alumni in industry. Ask faculty and your department to help find connections.
- Consider taking the [Strong Interest Inventory Assessment](#) to learn about career options
- Try connecting with your faculty. If you develop and demonstrate interest in their research, you can reach out to discuss potential opportunities
- Seek out summer employment as a field/lab assistant.
- Reach out to gain support from faculty and your department regarding your thesis, if you are completing one. Start planning early, and reach out to mentors and faculty to discuss your interests.

- Build career readiness skills by attending resume, job search and interview skills workshops in the [Career Zone](#).
- Attend the Career and Job Fair/ Career and Summer Job Fair to network with employers.
- Check the [Career Zone calendar](#) to find out when career-building events are being held.
- Consider and discuss graduate school options with your faculty.
- Finish strong with your final year – in many cases, grad programs only look at your last year or two of grades.
- Speak to Alumni in your department to see what their next steps were when approaching graduation.
- Talk to faculty about your options for graduate school or potential careers.
- Attend the annual [Prospectors and Developers Conference and Trade Show](#), as well as the [Northwestern Ontario Prospectors Association](#) meeting.

CAREER DEVELOPMENT CHECKLIST

- Visit the [Career Zone](#).
- Apply for job opportunities in your field.
- Seek summer employment.
- Create a [LinkedIn](#) account.
- Attend Career Zone job readiness workshops. Check the [calendar](#) to see upcoming events.
- Consider arranging an [informational interview](#). This is a great way to build your network, gain mentors, and explore career options.
- [Attend](#) the Volunteer and Career Fairs.
- Research employment opportunities tied to skills developed in your major.
- Consider checking out [Resources and Tools](#) on the Career Zone Website, to learn more about professional development (i.e. the Strong Interest Inventory).
- Keep track of your skills and experiences for your cover letters and resumes.
- Keep track of your on-campus extracurricular activities to add to your [Co-Curricular Record](#) (on mySuccess).

▶ What skills do employers want?

- Flexibility and creativity
- Strong analytical, problem-solving skills
- Self-directing and independent work
- Ability to present information concisely and clearly
- Strong research and adaptability skills
- Meet knowledge requirements to become a Geoscientist in Training as outlined on the APGO website
- GIS knowledge

▶ What skills will I gain with this major?

- Data gathering
- Laboratory skills
- Problem-solving
- Decision-making and team-work
- Critical thinking
- An understanding of how the Earth is formed
- The ability to identify rocks and minerals
- The geological and climate hazards facing society today

▶ What double degrees can I do with this major?

- Education

▶ What graduate degrees could I pursue?

- Master's of Science
- Master's of Environmental Studies
- Master's of Environmental Science

▶ What types of minors can I do?

- Minor options are not specified. Students wishing to obtain a minor can do so using their free credit electives and should consult with their Department Chair. Minors are typically earned in a cognate program (i.e. Geography, Biology, Chemistry, Physics).

▶ What could I add to my degree?

- Standard First Aid
- Certificate in Geomatics

▶ What careers can I pursue?*

- Geoscientist
- Geobiologist
- Environmental Analyst
- Environmental Consultant
- Environmental Planner
- Hazardous Waste Manager
- Environmental Engineer
- Geological Technician

*Your career path is not limited to this list. There could be other options to explore!

▶ What field of work are alumni working in?

- Environmental consulting
- Academia (universities and colleges)
- Hydrogeologist
- Education (high school teacher)

▶ What percentage of graduates are employed within 2 years after graduation?

- Other Arts and Sciences: 97.2%

STUDENT SUCCESS CENTRE

THUNDER BAY (SC0008)

(807) 343-8018
ssc@lakeheadu.ca
Monday - Friday | 8:30am - 4:30pm

ORILLIA (OR1021)

(705) 330-4010 x 2118
orillia.ssc@lakeheadu.ca
Monday - Friday | 8:30am - 4:30pm

CAREER ZONE

THUNDER BAY (UC00)

(807) 343-8010 x 8264
careerzone.ssc@lakeheadu.ca
Monday - Friday | 10:00am - 4:30pm

SOCIAL MEDIA

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