GEOLOGY

What is Geology? The discovery and development of water, mineral, and energy resources – and their sustainability – is a key part of it. But so is coping with climate change, the human impact on our world, and the natural hazards facing a growing global population. These all depend on a deep understanding of natural processes gained through the study of Geology.

GEOLOGICAL SCIENCES AND GEOLOGICAL ENGINEERING DEPARTMENT OF

ALUMNI STORY

1.9 cGPA AUTOMATIC ACCEPTANCE
0.7 cGPA PENDING LIST

2018-19 thresholds

Note that degree requirements are revised regularly. The most current requirements, including course lists and options, are found in the Academic Calendar at: QUartsci.com/academic-calendar

* Please note if you were admitted to the Plan prior to May 2018 your requirements are slightly different.
GEOLGY SPECIALIZATION MAP

SPECIALIZATION BACHELOR OF SCIENCE (HONOURS)

1ST YEAR

GET THE COURSES YOU NEED

In first year you will have the chance to explore the foundations of Geology in biology, chemistry, geography and geology along with some electives. See the back page for specific courses to consider.

ATTEND MAJORS NIGHT in the Winter term to learn more about Plan options.

GET RELEVANT EXPERIENCE

Join teams or clubs on campus such as the Queen's University Experimental Sustainability Team (QUEST) and the Queen's Project on International Development (QPID).

See the AMS Clubs Directory or the Queen's Get Involved page for more ideas.

GET CONNECTED WITH THE COMMUNITY

Volunteer on or off campus with different community organizations, such as the Earth Centre and Women in Science and Engineering.

GET THINKING GLOBALLY

Prepare for work or studies in a multi-cultural environment by taking QUIC's Intercultural Competency Certificate, and research possible immigration regulations.

Speak to a QUIC advisor to get involved in their programs, events, and training opportunities.

GET READY FOR LIFE AFTER GRADUATION

Grappling with program decisions? Contact the Chair of Undergraduate studies in the Department of Geological Sciences and Geological Engineering.

Get some help wondering about career options from Career Services.

2ND YEAR

GET THE COURSES YOU NEED

Start going deeper into the discipline of Geology, while considering a certificate such as Employment Relations. Attend Degree + in the Fall term to learn more about Certificates and Internship options.

WANT TO MAKE SURE YOUR ACADEMICS ARE WHERE YOU WANT THEM TO BE? Visit SASS (Student Academic Support Services) and the Writing Centre for some help.

GET RELEVANT EXPERIENCE

Look into summer jobs by talking to the dept. or Career Services about work through SWEP or NSERC.

Take more responsibility within different clubs or extracurricular activities. Consider entrepreneurial opportunities via programs like the Queen's Innovation Connector Summer Initiative (QICS).

GET CONNECTED WITH THE COMMUNITY

Get involved with the Miller Club (the Departmental Student Council).

Start or continue volunteering with organizations such as Engineers Without Borders.

GET THINKING GLOBALLY

Is an exchange in your future? Start thinking about where you would like to study abroad. Apply in January for a third year exchange through the International Programs Office.

GET READY FOR LIFE AFTER GRADUATION

Explore different careers of interest by accessing resources in the Career Services Career Advising and Resource Area, such as the Geology Career Files. For more information check out Career Cruising or by finding and connecting with alumni on LinkedIn.

3RD YEAR

GET THE COURSES YOU NEED

A chance to start grouping courses in areas of interest, or to keep it more general and explore many areas of Geology. Meet with an Academic Advisor to make sure you are on track and have planned out your courses for next year — for some ideas, see the back page.

GET RELEVANT EXPERIENCE

Stay during the summer as an assistant to a faculty member or apply for an external summer research opportunity.

Consider applying to do a 12-16 month QUIP internship between your third and fourth year.

GET CONNECTED WITH THE COMMUNITY

Do targeted networking with alumni working in careers of interest by joining the LinkedIn group Queen’s Connects. If interested, attend the Oil and Gas Speakers Series and the Annual Advances in Earth Sciences Research Conference. Investigate the Association of Professional Geoscientists of Ontario (APGO) for the requirements to be qualified as a Professional Geoscientist.

GET THINKING GLOBALLY

Build your intercultural competence by getting involved with other cultures or by practicing or improving your language skills.

GET READY FOR LIFE AFTER GRADUATION

Start focusing on areas of interest. Research education requirements for careers of interest. If needed, prepare to take any required tests (like the LSAT or GMAT) and get help thinking about Grad School from Career Services.

4TH OR FINAL YEAR

GET THE COURSES YOU NEED

In fourth year you will have the chance to participate in research-based courses that can lead to Graduate School or to your future career path. Make sure to finish up all your courses for your degree and your optional certificate(s).

GET RELEVANT EXPERIENCE

Investigate requirements for full time jobs or other opportunities related to careers of interest.

Assess what experience you’re lacking and fill in gaps with volunteering, clubs, or internships – check out the Career Services skills assessment to help.

GET CONNECTED WITH THE COMMUNITY

Consider joining professional organizations such as the Geological Association of Canada, the Canadian Society of Petroleum Geologists, the International Association of Hydrogeologists and the National Ground Water Association.

JOIN GROUPS ON LINKEDIN REFLECTING SPECIFIC CAREERS OR TOPICS OF INTEREST IN GEOLOGY.

GET THINKING GLOBALLY

International students interested in staying in Canada can speak with an International Student Advisor.

GET READY FOR LIFE AFTER GRADUATION

Apply to jobs or future education, or make plans for other adventures. Get help from Career Services with job searching, resumes, interviews, Grad School applications, or other decisions.

What will I learn?

A degree in Geology can equip you with valuable and versatile skills, such as:

• Knowledge of principles and techniques of the earth sciences
• Practical applications of geological science techniques
• Understanding of the variability of earth materials and their changes with time and environment
• Fieldwork skills to design and carry out site investigations to solve problems
• Technical skills to use up-to-date geological analysis tools, equipment and software
• Research skills to conduct scientific research and analyze quantitative information, develop multiple working hypotheses
• Problem solving to approach a range of problems from various perspectives
• Ability to work independently and in a team on a project
• Oral and written communication to clearly explain technical information and write reports

Where can I go?

A degree in Geology can take your career in many directions. Many students choose to continue their academic inquiry with a Master's. Our students are equipped with a strong foundation for careers in:

• Agricultural sciences
• Ecology
• Geomatics
• Landscape architecture
• Palaeontology
• Renewable energy
• Surveying and cartography
• Geology
• Volcanology
• Water conservation

Taking time to explore career options, build experience and network can help you have a smooth transition to the world of work after graduation.