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.

**TOP 5 REASONS to study GEOLOGICAL SCIENCES**

1. The department has state-of-the-art facilities, including X-ray Diffraction and Applied Geophysics Labs.
2. Most students in the department gain over 240 hours of hands-on experience on various field trips.
3. We are a small, friendly department. You will get to know your classmates and professors very well.
4. The Miller Museum, our on-site museum right here at Queen’s, is your classroom.
5. Our internship program (QUIP) offers a wide range of careers to explore and companies to learn from.

“*The department embraces a work-hard, play-hard ethic that I believe transfers well to the workplace. It teaches that balance is important, and that how you get the work done is as important as getting the work done – a valuable lesson.*”
- Kirsten Pugh, BSc’02

**ALUMNI JOBS**

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Field</th>
</tr>
</thead>
<tbody>
<tr>
<td>9%</td>
<td>GOVERNMENT</td>
</tr>
<tr>
<td>15%</td>
<td>EDUCATION</td>
</tr>
<tr>
<td>16%</td>
<td>MINING</td>
</tr>
<tr>
<td>21%</td>
<td>ENERGY</td>
</tr>
</tbody>
</table>

**2020-21 major thresholds**

- **1.9 cGPA** AUTOMATIC ACCEPTANCE
- **0.7 cGPA** PENDING LIST

Thresholds are made on a competitive basis and are updated annually. To see the thresholds for all programs as well as the latest information, please visit [quartsci.com/planselection](http://quartsci.com/planselection)

**Acquire Skills. Gain Experience. Go Global.**

That is a degree from Queen’s.
**Geology MAJOR MAP**

**BACHELOR OF SCIENCE (HONOURS): MAJOR, MINOR, SPECIALIZATION**

**GET THE COURSES YOU NEED**

- **1ST YEAR**: In first year you will have the chance to explore the foundations of Geology in biology, chemistry, geography and geology along with some electives. 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**

- **Grapple 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.**

**1ST YEAR**

- **In first year you will have the chance to explore the foundations of Geology in biology, chemistry, geography and geology along with some electives.**
- **Attend Majors Night in the Winter term to learn more about Plan options.**

**2ND YEAR**

- **Start going deeper into the discipline of Geology, while considering a minor and/or 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.**

**3RD YEAR**

- **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.**

**4TH OR FINAL YEAR**

- **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 major and your optional minor and/or certificate(s).**

**C O N S I D E R A 1 2 - 1 6 M O N T H Q U I P I N T E R N S H I P**

- **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 workshop for help.**

**What will I learn?**

- A degree in Geology can equip you with:
  - 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
  - Paleontology
  - Renewable energy
  - Surveying and cartography
  - Toxicology
  - Volcanology
  - Water conservation

Visit careers.queensu.ca/majormaps for the online version with links!

*This map is intended to provide suggestions for activities and careers, but everyone’s abilities, experiences, and constraints are different. Build your own Major Map using our online My Major Map tool.
How to use this map

Use the 5 rows of the map to explore possibilities and plan for success in the five overlapping areas of career and academics. The map just offers suggestions – you don’t have to do it all! To make your own custom map, use the My Major Map tool.

Get started thinking about the future now – where do you want to go after your degree? Having tentative goals (like careers or grad school) while working through your degree can help with short-term decisions about courses and experiences, but also help you keep motivated for success.

Get the help you need

Queen’s provides you with a broad range of support services from your first point of contact with the university through to graduation. At Queen’s, you are never alone. We have many offices dedicated to helping you learn, think and do.

Ranging from help with academics and careers, to physical, emotional, or spiritual resources – our welcoming living and learning environment offers the programs and services you need to be successful, both academically and personally. Queen’s wants you to succeed! Check out the Student Affairs website for available resources.

Why study in Kingston?

For over 175 years, our community has been more than a collection of bright minds – Queen’s has attracted students with an ambitious spirit. Queen’s has the highest retention rates, the highest graduation rates, and one of the highest employment rates among recent graduates. We are a research intensive university focused on the undergraduate experience. The BBC has identified Kingston as one of the GREATEST UNIVERSITY TOWNS in the world – and it is often awarded the safest city in Canada. It is a university city at the core; just a quick drive to Toronto, Montreal, Ottawa and even New York. A university with more clubs per capita than any other university in Canada, and a city with more restaurants per capita than any other city in North America – you will have the experience of a lifetime at Queen’s – and graduate with a degree that is globally recognized among the best.

We’re closer than you think

For more information, contact quip@queensu.ca or visit the Program Website.