

MSc in Geology

M.Sc. in geology - Thesis-based option

The M.Sc. program normally consists of four one-term GEOL graduate courses, plus a thesis (GEOL 5000). The department may recommend that in individual cases, one suitable fourth-year course may be taken in lieu of a graduate course. Admission requirements: B.Sc. Honours degree with a minimum B average. Note that students in this program cannot transfer into the M.Sc. Mineral exploration one-year option.

M.Sc. in geology - Mineral exploration one-year option

The M.Sc. in mineral exploration is designed for geologists who wish to upgrade their skills by taking an intensive, one-year, course-based degree program. Students may enter the program at any time during the academic year (i.e., September, January, May). This program involves taking six courses, as follows: (1) three two-week modular courses offered in the calendar year enrolled (see list below); (2) an additional three full-term geology graduate courses, as listed in the School of Graduate Studies calendar, for which one may be substituted for by one senior level undergraduate course; and (3) an applied research project (GEOL 5055) that will be determined in consultation with a faculty supervisor and which, if appropriate, may focus on a problem of interest to the candidate's employer where relevant. This project must be submitted within 11 months of starting the program. Note that other modular-based and full-term graduate courses similar in amount of work, duration and academic content may be considered as a substitute for some of the courses at the discretion of the program coordinator.

Modular-based courses:

- GEOL 5055 - Applied Research Project
- ⁺GEOL 5326 - Mineral Exploration in Volcanic Terrains**
- ⁺GEOL 5606 - Exploration for Magmatic Ore Deposits
- ⁺GEOL 5806 - Exploration Geochemistry
- *GEOL 5307 - Structure, Tectonics, and Mineral Exploration**
- *GEOL 5607 - Exploration for Hydrothermal Ore Deposits
- *GEOL 5956 - Exploration Geophysics

(+) even year courses, (*) odd year courses

** *field-based modules*

Admission requirements:

Entrance to the M.Sc. in mineral exploration one-year option is restricted to geoscientists holding a B.Sc. honours degree in the Earth Sciences (minimum B average). Enrolment and residency requirements: students in this option are full-time students.

M.Sc. in geology - Mineral exploration two-year option

The M.Sc. in mineral exploration two-year option is designed for industry geologists who wish to upgrade their skills while maintaining full-time employment. The program involves six, two-week course modules (listed below) and an applied research project (GEOL 5055). The courses are normally offered three per year (September, December, and April) on a two-year cycle; student may register in the program at any time (January, May, September). The scope and topic of the applied research project will be determined in consultation with the faculty supervisor and will focus on a problem of interest to the candidate's employer, typically in one of their active exploration or mining areas. Note that other modular-based and full-term graduate courses similar in amount of work, duration and academic content may be considered as a substitute for some of the courses at the discretion of the program co-ordinator.

Modular-based courses:

- GEOL 5055 - Applied Research Project
- +GEOL 5326 - Mineral Exploration in Volcanic Terrains**
- +GEOL 5606 - Exploration for Magmatic Ore Deposits
- +GEOL 5806 - Exploration Geochemistry
- *GEOL 5307 - Structure, Tectonics, and Mineral Exploration**
- *GEOL 5607 - Exploration for Hydrothermal Ore Deposits
- *GEOL 5956 - Exploration Geophysics

(+) even year courses, (*) odd year courses

** *field-based modules*

Admission requirements:

Entrance to the M.Sc. in mineral exploration two-year option is restricted to geoscientists holding a B.Sc. honours degree in the Earth Sciences (minimum B average) with at least two years of industry or equivalent experience. Enrolment and residency requirements: students in this option who are employed in the mineral exploration industry and maintain continuous enrolment are considered full-time students and will pay normal full-time graduate registration fees. Students who do not take the courses on a continuous basis will be classified as part-time.