

Graduate / Modular Course in Exploration Geochemistry

Hybrid
Delivery
Options

GEOL 5806

DECEMBER
5-15, 2024

Register for this comprehensive 10-day course in exploration geochemistry that addresses principles and methods of lithochemical and surficial geochemical exploration. Topics include planning, sampling, analysis, QAQC, data handling and analysis (basic geostatistics, introductory machine learning, ioGAS), and their interpretation.

Students will review case histories and their applications to magmatic, magmatic-hydrothermal, and hydrothermal mineral deposits and work on laboratory exercises relevant to mineral exploration.

The geochemical software ioGAS will be used throughout the course. On December 5, a one-day optional and highly recommended ioGAS tutorial will be held.

This course will provide an excellent professional development opportunity for industry professionals to upskill or refresh their knowledge. Graduate students will gain essential training and tools used in mineral exploration.

Prerequisites

Advanced undergraduate-level training (minimum 3rd or 4th-year training) in mineral deposits, geochemistry, and petrology is highly recommended.

Format

Lectures, laboratory practicals, and problem sets.

Course Credit

3 credits, applicable toward thesis-based or coursework-based MSc and PhD programs; also applicable toward continuing education and continuing professional development requirements for Professional Registration.

A participation certificate will be issued upon request, with hours listed.

Grading

Laboratory practicals and problem sets 100%.

Course Notes

Colour digital images of all presentations will be provided in PDF format. Notes remain the intellectual property of the presenter and may contain unpublished and/or confidential and copyrighted information, not for reproduction.

Course Costs for Industry Participants (CAD)

On campus:

\$2,750 + HST = \$3,107.50 for the full course, or daily rate \$300 + HST = \$339.

Remote:

\$1,200 + HST = \$1,356 for the full course, or daily rate \$120 + HST = \$135.60.

Course Costs for Enrolled University Students

Laurentian University students follow the standard registration procedure. Graduate students enrolled in other Ontario universities will register through the Ontario Visiting Graduate Student Program and pay fees directly to their university. Graduate students outside of Ontario may take the course as part of their required credits. Students should consult with their home institution. Participants are responsible for their own travel, lodging, and meals.

For details and to complete your registration, visit:

hes.laurentian.ca/modular-courses

Course Coordinator

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For more information and registration

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École des sciences de la Terre

MERC
Mineral Exploration Research Centre
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