



Ontario universities are working together to develop a new inter-Ontario collaborative graduate curriculum that will provide modular courses to educate and train the next generation of geoscientists for careers in industry, academia, and government.

This inter-university geoscience education network will draw upon faculty from Ontario universities, as well as researchers at the Geological Survey of Canada, the Ontario Geological Survey, and the mining industry.

Modular courses, up to two weeks in duration, are currently offered at Laurentian University and the University of Ottawa, and can be used for graduate credit or for professional accreditation. These courses form the basis of the Applied M.Sc. Program in Mineral Exploration at Laurentian University.

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**COLLABORATIVE
GRADUATE CURRICULUM**

MERC
Mineral Exploration Research Centre



CEMI
Centre for Excellence
in Mining Innovation



Laurentian University
Université **Laurentienne**



MERC
Mineral Exploration Research Centre



uOttawa



Graduate Courses that are...

- High quality
- Team-taught by experts
- Delivered in a modular, intensive format
- Field and lecture based
- Recognized for professional accreditation
- Interactive and International

MERC



EXPLORATION IS IN HIGH DEMAND

The current boom in mining and mineral exploration across Canada has resulted in an acute shortage of geoscientists at home and abroad.

Recognizing that the current shortage of geoscientists will only continue to increase, the Mineral Exploration Research Centre (MERC) at Laurentian University has initiated a new, inter-Ontario collaborative graduate curriculum to educate and train the next generation of geoscientists for careers in industry, academia, and government.

Courses are given in a “team-taught” format, drawing upon faculty from universities in Ontario, across Canada and internationally, as well as researchers from the Geological Survey of Canada, the Ontario Geological Survey, and the exploration industry. The new curriculum will bring together the best teaching expertise, and the best earth sciences graduate students, in order to create a “critical mass” that will foster educational and research excellence.

The key objective of this initiative is to increase the number of geoscience MSc and PhD. students graduating from Canadian universities and to enhance their education and training opportunities by offering high quality modular courses that will strengthen their career prospects in the mining, government, and research sectors. The curriculum currently includes seven courses offered over a two-year period delivered at Laurentian University and the University of Ottawa. The modular courses are also available for professional accreditation.

Quantitative Methods for Mineral Exploration (Ottawa University, February 16-23, 2008)

Exploration for Magmatic Ore Deposits (Laurentian University April 05-15, 2008).

Includes a workshop on Sudbury footwall ores sponsored by MERC and SEG.

Mineral Exploration in Volcanic Terrains (Laurentian University, August 17-28, 2008)

Exploration Geochemistry (Laurentian University, December, 2008)

Exploration for Hydrothermal Ore Deposits (Ottawa University, April 2009)

Structure, Tectonics, and Mineral Exploration (Laurentian University, September 2009)

Exploration Geophysics (Laurentian University, December 2009)

**Courses are offered at the same time every two years.*

This innovative approach to graduate education will:

- Enhance the learning experience and quality of education for students;
- More efficiently utilize the teaching and research talent within the Ontario University system;
- Engage instructors from among our government and industry partners;
- Promote research collaboration among the University participants;
- Attract new students into the system; and
- Ensure that the Ontario University system remains a global centre for training the next generation of Canada’s mineral industry leaders.

The collaborative graduate curriculum is jointly funded by the Centre for Excellence in Mining Innovation (CEMI) and Natural Resources Canada, the latter through their Targeted Geoscience Initiatives (TGI) Program. The curriculum of modular courses is administered through MERC. Funding is used to offset the travel and accommodation costs of graduate students who converge at these universities to attend the courses.

To learn more about the new collaborative graduate program, please contact Professor Harold Gibson (hgibson@laurentian.ca), Professor Mark Hannington (mhanning@uottawa.ca), Professor Dan Kontak (dkontak@laurentian.ca) or visit the Department of Earth Sciences or MERC at www.earthsciences.laurentian.ca and www.merc.laurentian.ca.

