Instructor: Dr. Maureen Padden (paddenm@mcmaster.ca)

Field Assistants: Haley Spennato (spennahm@mcmaster.ca)

Course Dates: Monday, May 1 - Wednesday, May 10
Meet on Monday, May 1 at 8:30 a.m. in BSB 343
This course runs for 10 days including weekends.

Prerequisite(s): One of EARTHSC 1G03, ENVIRSC 1G03, ISCI 1A24

Applications due online:
Please use this link, click on Field Course Application to apply for a spot in the course.
http://www.science.mcmaster.ca/geo/undergraduate/forms.html

We will be going into the field on the first day. On that day, you'll need hiking boots, a packed lunch and a notebook, hammer and hand lens handy.
Please come prepared. See below for equipment.

Costs: We are still in the process of calculating the extra costs of the course. We will communicate with students who have applied once we finalize our budget. You can pay your deposit by cash or money order at the main office for the School of Geography and Earth Sciences (GSB 206) by March 24.

Field Exercises will involve:
(1) measuring and describing stratigraphic sections
(2) describing, identifying and mapping rocks
(3) making a geological map
(4) making a topographic and geologic map of a small area
(5) constructing a geological cross-section
(6) reporting on your work

Grading scheme*

Stratigraphic columns and correlation 15%
Detailed map 25%
Regional map and cross-section 25%
Interview 20%
Field notebook 5%
Participation / discretionary 10%

*may change slightly as additional field areas become available. Final grading scheme will be available on the first day of the course.
List of Essential Items for Field Work:

**Field and Office**
- Mineral Kit, including hand lens
- hammer (no lighter than 24 oz. bricklayer)
- map folder - a clipboard with cover works well
- field notebook - hardcover recommended
- protractor
- short ruler with mm divisions
- longer ruler for office work
- pencils and erasers
- coloured pencils for colouring maps
- inking pen (fine point)
- tape
- calculator
- watch/ phone
- paper for report/cross-sections/diagrams
- stapler or bunch of paper clips

**Clothing etc.**
- Health Card
- good boots
- good (waterproof) rain gear including rain pants
- backpack for carrying rain gear, lunch etc.
- water bottles/ thermos
- small first aid kit
- light clothing for hot, dry weather
- warm clothing for cold, wet weather
- hat
- gloves/mitts
- toilet paper or Kleenex

You may find these useful to have along
- EarthSc 1G03 notes and custom courseware

To prepare for field school:
- **Read** essential information and equipment list and make sure you have everything you'll need. Some equipment must be purchased at specialty stores and may not be available at the last minute.
- **Review** from EarthSc/EnvirSc 1G03 lecture and/or lab notes the following topics:
  - sedimentary rock identification and classification
  - common marine fossils
  - igneous rock identification and classification
  - igneous rock bodies
  - metamorphic rock identification and classification
  - topographic and geologic maps
**Draft Schedule** (we may make small changes based on weather or other limitations)

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Activity</th>
<th>Accommodation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, May 1</td>
<td>Leave Mac Travel to Severn Quarry</td>
<td>- construct stratigraphic column of Paleozoic sedimentary rocks</td>
<td>Check in EconoLodge Orillia</td>
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<tr>
<td>Tuesday, May 2</td>
<td>Severn Quarry</td>
<td>- construct stratigraphic column of Paleozoic sedimentary rocks</td>
<td>EconoLodge Orillia</td>
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<tr>
<td>Wednesday, May 3</td>
<td>Second quarry</td>
<td>- construct stratigraphic column of Paleozoic sedimentary rocks</td>
<td>EconoLodge Orillia</td>
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<tr>
<td>Thursday, May 4</td>
<td>Beausoleil Island</td>
<td>Beausoleil Orientation Finish stratigraphic correlations</td>
<td>Check out EconoLodge Drive to Honey Harbour, take boat to YMCA Camp Kitchikewana</td>
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<tr>
<td>Friday, May 5</td>
<td>Beausoleil Island</td>
<td>Regional Mapping - Goblin Bay – Fairy Lake</td>
<td>YMCA Camp Kitchikewana</td>
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<tr>
<td>Saturday, May 6</td>
<td>Beausoleil Island</td>
<td>Regional Mapping – Dossyonshing Trail</td>
<td>YMCA Camp Kitchikewana</td>
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<td>Sunday, May 7</td>
<td>Beausoleil Island</td>
<td>Regional Mapping – Georgian Trail</td>
<td>YMCA Camp Kitchikewana</td>
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<tr>
<td>Monday, May 8</td>
<td>Beausoleil Island</td>
<td>Detailed Map – Precambrian and Quaternary</td>
<td>YMCA Camp Kitchikewana</td>
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<td>Tuesday, May 9</td>
<td>Beausoleil Island</td>
<td>Detailed Map – Precambrian and Quaternary</td>
<td>YMCA Camp Kitchikewana</td>
</tr>
<tr>
<td>Wednesday, May 10</td>
<td>Beausoleil Island</td>
<td>Detailed Map – Precambrian and Quaternary Interviews</td>
<td>Check out YMCA Camp Kitchikewana</td>
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