

GEOG2017EL Course Overview  
Applied Cartography and introduction to GIS

Instructor: Marc Lefebvre, mlefebvre@laurentian.ca  
Lecture Room: L-507 Monday 7:00pm to 8:30pm  
Lab Room: L-320 Monday 8:30pm to 10:00 pm

**Objective**

The purpose of this course is to emphasize the application of cartographic principles usually acquired in GEOG 2016. Issues unique to map creation and design using specialized information databases, such as Geographic Information Systems, are explored. Emphasis is placed on the integration of mapping and the analyses of geographic phenomena.

The course involves both lectures and practical assignments. Assignments will be due **before** the beginning of the next class. A drop box is available in the Geography Department on the 3<sup>rd</sup> floor in front of room L-326. I will be checking the assignment box before the beginning of each class. A penalty of 10% per day will be applied for late work. A term project will also be completed. This project will include work from your weekly lab assignments.

**Materials**

You will need a USB flash drive/key to save data, workspaces, and final products. A 4GB drive is recommended.

Textbook:

There is no textbook for this class. The students are encouraged to make extensive use of the online help files during their exercises. These files are extensive

Recommended Reading:

Dent , Borden D. 1993. *Cartography Thematic Map Design*. 3<sup>rd</sup> ed. Wm. Brown Publishers. Dubuque, Iowa. ISBN 0-697-13589-6

Campbell, John. 1991. *Map Use and Analysis*. Wm. C. Brown Publishers. Dubuque, Iowa. ISBN 0-697—11683-2.

**Evaluation**

Lab Assignments	Best 11 of 12	40%
Mid-Term		10%
Term Project		25%
Final Exam:		25%

**Proposed Course Schedule**

Week 1	Jan 4	Course Overview / Review of Basis Cartographic Concepts Lab: Basic Map Elements and Design
Week 2	Jan 11	Introduction to GIS and GIS software Lab: Navigating ArcGIS and file management

Week 3	Jan 18	Representing Spatial Data, Data Models, & Topology Lab: Creating a Base Map
Week 4	Jan 25	Data Sources + Census Geography and Data Lab: Accessing and Linking Spatial and Non-Spatial Data
Week 5	Feb 1	Map Types and Symbolization Lab: Map Types & Symbolization
Week 6	Feb 8	Statistical Map Classification Lab: Thematic Maps
Week 7	Feb 15	Study Week – no classes
Week 8	Feb 22	Mid-Term Lab: More Thematic Maps
Week 9	Mar 1	Metadata and License Agreements Lab: Creating an Atlas / Planning Term Project
Week 10	Mar 8	Projections Lab: Projections & Transformations
Week 11	Mar 15	Map Analysis Lab: Spatial and Non-Spatial Queries
Week 12	Mar 22	Buffering and Overlays Lab: Buffering and Overlays
Week 13	Mar 29	Review Lab: Editing spatial files
April 6 to 30		Examination period for Winter Session.

### **University Regulations Regarding Cheating and Plagiarism**

"Laurentian University takes a most serious view of such offences against academic honesty as plagiarism, impersonation and other forms of cheating. Penalties for dealing with such offences will be strictly enforced plagiarism involves submitting or presenting work in a course as if it were the student's own work done expressly for that particular course when, in fact, it is not"<sup>1</sup>. Sharing of or copying assignment answers is considered plagiarism. Penalties for academic dishonesty range from the assignment of a grade of zero on an assignment, test or exam, of for the entire course, to the expulsion from the University<sup>1</sup>. .

A summary of the Laurentian University's policy Academic Dishonesty is available at:  
[http://laurentian.ca/Laurentian/Home/Departments/Commerce/H.B.Com.+Program/Current+Students/School+Year/HBCOM-Academic+Dishonesty.htm?Laurentian\\_Lang=en-CA](http://laurentian.ca/Laurentian/Home/Departments/Commerce/H.B.Com.+Program/Current+Students/School+Year/HBCOM-Academic+Dishonesty.htm?Laurentian_Lang=en-CA)

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<sup>1</sup> Policy Statement on Academic Dishonesty.

[http://laurentian.ca/Laurentian/Home/Departments/Commerce/H.B.Com.+Program/Current+Students/School+Year/HBCOM-Academic+Dishonesty.htm?Laurentian\\_Lang=en-CA](http://laurentian.ca/Laurentian/Home/Departments/Commerce/H.B.Com.+Program/Current+Students/School+Year/HBCOM-Academic+Dishonesty.htm?Laurentian_Lang=en-CA)

A copy of the Policy Statement on Academic Dishonesty is available from the office of the Secretary of Senate or at: <http://laurentian.ca/NR/rdonlyres/4F96286D-7A99-4AFC-BBE6-F9F5A49BCFC6/0/academicdishonesty.pdf>

You can find the document by searching for “Academic Dishonesty” at the Laurentian website.