Course Instructor | Jean Blair | Email: j.blair@queensu.ca
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Office | TBD
Contact Time | Two-hour lecture and two-hour lab per week
Format | Lectures, labs, discussions, presentations and a final project
Class Assessment | Lab assignments 40%
Quizzes, midterm 30%
Final project report, presentations 25%
Class participation and discussion 5%

COURSE OVERVIEW
This course is offered to Level 3 students from any department and will introduce the fundamentals of cartography, including theoretical and practical considerations for making maps and discussions of maps as communicative resources, models and analytical tools. A wide range of topics will be discussed with respect to mapping concepts and techniques for the design and production of quantitative and qualitative thematic maps. Through the practical lab component, students will become familiar with the cartographic process beginning with data and developing spatial data into map form. By working on cartographic projects, students will demonstrate capabilities in Geographic Information Science (GIS) and an understanding of cartographic concepts including the appropriate use of map types in relation to data, implications of scale and characteristics of projection types. An introduction the ArcGIS online platform will also be provided.

LEARNING OUTCOMES
- Develop foundational knowledge and demonstrate applied skills in cartographic principles and geo-spatial data acquisition, visualization, design and communication and interpretation and critique of maps.
- Communicate geographic ideas and understanding effectively to a variety of audiences in writing, orally, and graphically and develop a professional looking map with all of the necessary elements for use in an assignment, paper or report.

COURSE TOPICS
Basic characteristics of maps, cartographic process, mapping concepts such as scale, projections, typography, generalization, symbols, color scheme, classification, multivariate mapping, design and production of thematic maps, use and critique of maps, online mapping.

COURSE READINGS
Course textbook TBD
Suggested readings: