

**GEOGRAPHY 328: GIS ANALYSIS**  
**DEPARTMENT OF GEOGRAPHY, UNIVERSITY OF VICTORIA**  
Course outline - Fall 2014

**GENERAL INFORMATION**

Dr. Shannon Fargey  
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Tel: 250-721-7342

Office hours: Wednesday 2:00 to 3:00 pm  
Thursday 11:00 am to 12:00 pm  
or by appointment

**Lecture Information:**

Time: Tues, Wed – 11:30 am -12:20 pm  
Location: COR A229

**COURSE DESCRIPTION**

This course focuses on analysis for digital mapping and modeling, developing and using geographic data to answer spatial research questions, conducting basic spatial interpolations, and carrying-out multi-criteria modelling.

**COURSE OBJECTIVES**

1. To understand the capabilities and limitations of GIS
2. To know how to solve spatial problems (theoretically and practically) using GIS
3. Communicate GIS issues and solutions
4. To read and write about GIS

**TOPICS TO BE STUDIED:**

- ¥ GIS overview
- ¥ Databases, queries and measurement
- ¥ Raster Analysis
- ¥ Terrain Analysis
- ¥ Overlays and Buffers
- ¥ Quality and Uncertainty
- ¥ Interpolation
- ¥ Network Analysis
- ¥ Special topics and Research

**REQUIRED TEXTBOOK**

Chang, K. T. (2014). Introduction to Geographic Information Systems (7<sup>th</sup> ed) New York: McGraw-Hill (available at the University Bookstore)

A list of supplemental reading and texts will be posted on the course page.

## COMMUNICATION:

CourseSpaces learning management systems (LMS) will serve as the main avenue of communication in this course. Please monitor the page on a regular basis for course announcements, readings assignments and lecture handouts.

<http://coursespaces.uvic.ca>

If you are having difficulty logging in or password problems, contact the Computer Help Desk Email: [helpdesk@uvic.ca](mailto:helpdesk@uvic.ca), Tel: 250-721-7687

Topic handouts *based* on lecture presentations will be provided. They will be posted by 7 PM the evening before the next lecture on the course page. They will be removed within 7 days of the posting date. Students are responsible for downloading/saving, and completing notes packages. If you miss any material, make arrangements to get notes from a fellow student, not from instructor!

## EVALUATION CRITERIA

Labs (5) = 50% (10% each)

Midterm = 15% - October 21<sup>st</sup> during lecture period

Final Exam = 35% - during exam period (Date/Time TBA)

You must obtain a passing grade (i.e., ! 50%) in both the lecture and lab components to pass the course.

Exam format will include a combination of short and long-answer and multiple-choice questions. The questions for the midterm exam and final exam will be based on lectures, assigned readings and class discussion. The midterm test will cover only the topics discussed immediately preceding it. The final exam is comprehensive, although may be weighted more heavily on material not previously tested on.

## Final Grade Allocation:

| A+      | A      | A-     | B+    | B    | B- | C+   | C  | D     | F   |
|---------|--------|--------|-------|------|----|------|----|-------|-----|
| 90-100% | 85-89% | 80-84% | 7-79% | 7-7% | -% | 6-6% | -% | 50-5% | 49% |

## MISSED EXAMS AND LATE POLICY

¥ Students will not be permitted to write make-up tests except for documented medical or compassionate reasons. Please inform the instructor of your situation promptly and present written proof within five (5) working days.

¥ A grade of zero will be recorded for missed tests and exams.

¥ Any make-up test or examination may not follow the same format as the in-class one.

- ¥ Late assignments will be penalized 10% per day (including weekends and holidays). Exceptions will only be granted for documented medical or compassionate reasons. Only the course instructor can grant exceptions.
- ¥ All assignments must be submitted to write the final exam.
- ¥ Conflicts with holidays or travel plans are not considered an acceptable reason to apply for a deferred examination or assignment extensions.

### STUDENT RESPONSIBILITIES

- ¥ A high level of student cooperation and participation, involving asking and answering questions during the lectures.
- ¥ *Cell phones and portable music players must be turned off or silenced during lectures. Students are also required to remove earphones.*
- ¥ Students are required to attend all lectures and take notes.
- ¥ Students are expected to be punctual for classes. Not all material presented in the lectures is covered in the text.
- ¥ The individual student is required to read the assigned chapters of the textbook *prior to class*. Not all the textbook will be covered in the lectures but may be covered in the test or exam.

### CLASS CLIMATE

The University of Victoria has made a conscientious effort to increase diversity in the student, staff and faculty member populations. To ensure that all class members feel welcomed and equally able to contribute to class discussions, we will all endeavour to be respectful in our language, our examples, and the manner in which we conduct our discussions and group work. as044T2 1 Tf( )10c2seffort to increase diversity r l extensions.

## COURSE EXPERIENCE SURVEY

I value your feedback on this course. Towards the end of term, as in other courses at

GEOG 328 - LAB INFORMATION

# LAB ASSIGNMENT SCHEDULE

Week Date Schedule

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