GENERAL INFORMATION

Dr. Shannon Fargey  
Office: DTB B308 
Email: fargey@uvic.ca  
Tel: 250-721-7342

Office hours: Monday 10:00 am to 12:00 pm  
Thursday 2:00 pm to 3:00 pm  
or by appointment

Lecture Information:  
Time: Tues, Wed – 12:30 pm -1:20 pm  
Location: COR B107

Laboratory Information (Section, Weekday, Time, Location)  
A01 W 3:30-5:20 pm  DTB A251  
A02 R 8:30-10:20 am  DTB A251  
A03 F 12:30-2:20 pm  DTB A251

Contact information for the TA will be provided on CourseSpaces.

COURSE DESCRIPTION

This course focuses on analysis for digital mapping and modeling, developing and using geographic data to answer spatial research questions.

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
• Geospatial data
• Spatial analysis building blocks
• Data exploration: accuracy and uncertainty
• Surface analysis
  o Terrain mapping and analysis
  o Watershed analysis
  o Interpolation
• Network and location analysis
• Modelling in GIS
• Special topics and current research applications

EVALUATION CRITERIA

Labs (5) = 50% (10% each)
Term Tests (2) = 10% each (February 4th and March 10th) during lecture period
Final Exam = 30% - 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-answer and multiple-choice questions. The questions for the term tests and final exam will be based on lectures, assigned readings, learning resources and class discussion. The term tests 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

<table>
<thead>
<tr>
<th>A+</th>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>D</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-</td>
<td>85-</td>
<td>80-</td>
<td>75-</td>
<td>70-</td>
<td>65-</td>
<td>60-</td>
<td>55-</td>
<td>50-</td>
<td>&lt;49%</td>
</tr>
<tr>
<td>100%</td>
<td>89%</td>
<td>84%</td>
<td>79%</td>
<td>74%</td>
<td>69%</td>
<td>64%</td>
<td>59%</td>
<td>54%</td>
<td></td>
</tr>
</tbody>
</table>
COURSE READINGS AND LEARNING RESOURCES


In addition a list of supplemental readings and learning materials will be posted on CourseSpaces.

If you are interested, an excellent print textbook for this course is:

COURSE 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, Tel: 250-721-7687

LECTURE HANDOUTS

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

• Students must complete all evaluation components to obtain credit.
• Failure to complete an assignment (lab) or exam (midterm or final), without permission from the instructor, will result in an ‘N’ grade, which equals a Grade Point Value of 0.0

Missed exams:
• 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.
• Any make-up test or examination may not follow the same format as the in-class one.
• Conflicts with holidays or travel plans are not considered an acceptable reason to apply for a deferred examination.

Assignments:
• 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.
• Details regarding your labs and their marks are managed by the course TA. Please discuss any issues on labs with your TA first.
• Please attend only the laboratory section for which you are registered. If you must miss a lab for exceptional circumstances please make arrangements with your TA in advance to attend another section.
• Conflicts with holidays or travel plans are not considered an acceptable reason to apply for an assignment extension.

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 expected to be punctual for classes.
• Students are required to attend all lectures and take notes. Not all material provided in the lecture handouts is covered in assigned readings and learning resources.
• Not all assigned readings and learning resources will be covered in the lectures but may be covered in the exams.

CLASS CLIMATE

The University of Victoria is committed to promoting, providing and protecting a positive and safe learning and working environment for all its members.

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. If you have any concerns about the climate of the class, please contact me.

ACADEMIC INTEGRITY

Academic dishonesty (plagiarism, cheating) is a very serious matter in any academic institution and is dealt with severely at the University of Victoria.

The responsibility of the institution: Instructors and academic units have the responsibility to ensure that standards of academic honesty are met. By doing so, the institution recognizes students for their hard work and assures them that other students do not have an unfair advantage through cheating on essays, exams, and projects.

The responsibility of the student: Plagiarism sometimes occurs due to a misunderstanding regarding the rules of academic integrity, but it is the responsibility of the student to know them. If you are unsure about the standards for citations or for referencing your sources, ask your instructor.

Infractions will be dealt with in accordance with University policy. Commonly, the penalty for any form of cheating/plagiarism is a grade of F on the tests or laboratory assignments, or a final grade of F in the course. However, depending on the severity of the case other penalties may include a record on the student’s transcript or expulsion. Please familiarize yourself with the University policy on academic integrity found in the Undergraduate Calendar at the following website. Please contact me if you have any questions.

http://web.uvic.ca/calendar2011/FACS/UnIn/UARe/PoAcI.html
STUDENTS WITH A DISABILITY

If you have any type of disability, there are support systems, resources, and accommodation actions available to you. If you wish to access any of these supports, resources or accommodations, I encourage you to contact the Resource Centre for Students with a Disability (http://www.uvic.ca/services/rcsd/) to ensure your success in this course. Please note that you are under no obligation to disclose your disability.

COURSE EXPERIENCE SURVEY

I value your feedback on this course. Towards the end of term, as in other courses at UVic, you will have the opportunity to complete an anonymous survey regarding your learning experience (CES). The survey is vital to providing feedback to me regarding the course and my teaching, as well as to the department improve the overall program for students in the future. The survey is accessed via MyPage and can be done on your laptop, table, or mobile device. I will remind you and provide you with more detailed information nearer the time but please be thinking about this important activity during the course.

TENTATIVE LECTURE SCHEDULE*

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 5-9</td>
<td>Topic 1: Introduction and Review</td>
</tr>
<tr>
<td>January 12-16</td>
<td>Topic 2: Spatial data</td>
</tr>
<tr>
<td>January 19-23</td>
<td>Topic 3: Spatial analysis building blocks</td>
</tr>
<tr>
<td>January 26-30</td>
<td>Topic 3: continued</td>
</tr>
<tr>
<td>February 2-6</td>
<td>Review and Term Test 1 (Feb 4th)</td>
</tr>
<tr>
<td>February 9-13</td>
<td>Reading Break – No classes</td>
</tr>
<tr>
<td>February 16-20</td>
<td>Topic 4: Terrain mapping and analysis</td>
</tr>
<tr>
<td>February 23-27</td>
<td>Topic 4: continued and Topic 5: Interpolation</td>
</tr>
<tr>
<td>March 2-6</td>
<td>Topic 5: continued</td>
</tr>
<tr>
<td>March 9-13</td>
<td>Topic 6: Network and location analysis and Term Test 2 (March 10th)</td>
</tr>
<tr>
<td>March 16-20</td>
<td>Topic 6: Network and location continued</td>
</tr>
<tr>
<td>March 23-27</td>
<td>Topic 7: Modelling in GIS and special topics in research</td>
</tr>
<tr>
<td>March 30-April 3</td>
<td>Topic 7: continued and Course Review</td>
</tr>
</tbody>
</table>

* dates and topics may change
LAB MANUAL ACCESS
http://www.geog.uvic.ca/geog328
username: geog328 password: gis328

LAB ASSIGNMENTS INFORMATION
Lab assignments are due at the beginning of your lab and will be deducted for every day late thereafter. 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.

LAB ACCESS POLICY
The lab is open Monday through Friday from 8:30 am to 6:30 pm. For evenings and weekends and after-hours a key can be signed out from Rick Sykes. Since there is only one after-hours key, please write your name and the time you plan to be in the lab on the outside door of the lab, so that others can use the lab too.

LAB ASSIGNMENT SCHEDULE
*Please confirm with the TA in lab sessions regarding dates and due dates of lab assignments

<table>
<thead>
<tr>
<th>Week, Date, Schedule*</th>
<th>1</th>
<th>January 5-9</th>
<th>No Lab</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>January 12-16</td>
<td>Lab 1 – Projections and Queries</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>January 19-23</td>
<td>Lab 1 - continued</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>January 26-30</td>
<td>Lab 2 – Data&lt;br&gt;Lab 1 report due at beginning of lab session</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>February 2-6</td>
<td>Lab 2 - continued</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>February 9-13</td>
<td>Reading Break</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>February 16-20</td>
<td>Lab 3 – Terrain Analysis&lt;br&gt;Lab 2 report due at beginning of lab session</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>February 23-27</td>
<td>Lab 3 - continued</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>March 2-6</td>
<td>Lab 4 – Interpolation&lt;br&gt;Lab 3 report due at beginning of lab session</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>March 9-13</td>
<td>Lab 4 - continued</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>March 16-20</td>
<td>Lab 5 – Network Analysis&lt;br&gt;Lab 4 report due at beginning of lab session</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>March 23-27</td>
<td>Lab 5 - continued</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>March 30- April 2</td>
<td>Lab 5 report due at beginning of lab session</td>
<td></td>
</tr>
</tbody>
</table>