

## COURSE OUTLINE

The course description is online @ <http://camosun.ca/learn/calendar/current/web/geog.html>

Ω Please note: the College electronically stores this outline for five (5) years only.  
 It is **strongly recommended** you keep a copy of this outline with your academic records.  
 You will need this outline for any future application/s for transfer credit/s to other colleges/universities.

### 1. Instructor Information

|     |               |   |                    |  |
|-----|---------------|---|--------------------|--|
| (a) | Instructor:   | Tim Elkin   |                    |  |
| (b) | Office Hours: | Tues 1.30-2.20; Wed 10.30-11.20; Thurs 1.30-2.20; Fri 10.30-11.20 |                    |  |
| (c) | Location:     | E238  |                    |  |
| (d) | Phone:        | 370-3115  | Alternative Phone: |  |
| (e) | Email:        | elkint@camosun.ca   |                    |  |
| (f) | Website:      |   |                    |  |

### 2. Intended Learning Outcomes

*(No changes are to be made to these Intended Learning Outcomes as approved by the Education Council of Camosun College.)*

Upon completion of this course the student will be able to:

1. Describe basic concepts in mapping, including geo-referencing, scale, projection and map interpretation.
2. Differentiate between different types of maps.
3. Analyze GIS data and metadata to interpret digital maps.
4. Use GIS software to solve geographic problems and produce digital maps.

### 3. Required Materials

(a) Ian Heywood, An Introduction to Geographical Information Systems. 2011 (customized 4<sup>th</sup> edition). Prentice Hall.

(b) Course manual

### 4. Course Content and Schedule

*(This section can include: class hours, lab hours, out of class requirements and/or dates for quizzes, exams, lectures, labs, seminars, practicums, etc.)*

Week of

#### **Week 1 Sept 3**

Introduction to the course

#### **Week 2 Sept 10**

Lab: Introduction to ArcGIS

#### **Theme: Geographic Inquiry**

#### **Asking geographic questions/defining concepts**

Class: Maps, GIS and geographic inquiry  
 Heywood, Ch. 1

Assignment: Mental mapping

#### **Week 3 Sept 17**

Lab: Geographic inquiry; community mapping

Class: Understanding spatial data concepts: projection, datum, coordinates, scale  
Heywood, Ch. 2

Assignment: Spatial data concepts 1

**Week 4 Sept 24**

Lab: Maps – working with spatial concepts

Class: Understanding spatial data concepts: direction, elevation, relief  
Heywood, Ch. 2

Video: Arno Peters: radical map, remarkable man

Assignment: Spatial data concepts 2

**Week 5 Oct 1**

Lab: Map interpretation

Class: Spatial data models - vector and raster data  
Heywood, Ch. 3

Assignment: Spatial data models

**Week 6 Oct 8**

Lab: Working with vector and raster data models

**Theme: Geographic Inquiry**  
**Acquiring geographic resources/exploring geographic data**

Class: Working with spatial and attribute data; working with GPS  
Heywood, Ch. 4, 5

Assignment: Collecting spatial and attribute data

**Week 7 Oct 15**

Lab: Exploring data with maps – part 1

Class: **TEST 1**

**Week 8 Oct 22**

Lab: Exploring data with maps – part 2

Class/Assignment: Map making

**Week 9 Oct 29**

Lab: Exploring data with maps – part 3

**Theme: Geographic Inquiry**  
**Analyzing geographic information**

Class: GIS analysis  
Heywood, Ch. 6

Assignment: Data analysis

**Class: Week 10 Nov 5**

Lab: Data Analysis 1: Query, buffer, surface analysis, interpolation

Class: project

**Week 11 Nov 12**

Lab: *Data Analysis 2: Overlay*

**Theme: Geographic Inquiry**  
**Act on geographic knowledge**

**Class: Maps and decision making**  
 Heywood, Ch. 8

**Week 12 Nov 19**

Lab: Quantitative analysis: Choropleth maps

Project work

**Week 13 Nov 26**

Project work

Class: **TEST 2**

**Week 14 Dec 3**

Project work

**5. Basis of Student Assessment (Weighting)**

*(This section should be directly linked to the Intended Learning Outcomes.)*

|                     |     |
|---------------------|-----|
| Tests               | 35% |
| Lab/class exercises | 50% |
| Project             | 15% |

**6. Grading System**

*(No changes are to be made to this section unless the Approved Course Description has been forwarded through the Education Council of Camosun College for approval.)*

**Standard Grading System (GPA)**

| Percentage | Grade | Description   | Grade Point Equivalency |
|------------|-------|---|-------------------------|
| 90-100     | A+    |   | 9                       |
| 85-89      | A     |   | 8                       |
| 80-84      | A-    |   | 7                       |
| 77-79      | B+    |   | 6                       |
| 73-76      | B     |   | 5                       |
| 70-72      | B-    |   | 4                       |
| 65-69      | C+    |   | 3                       |
| 60-64      | C     |   | 2                       |
| 50-59      | D     | Minimum level of achievement for which credit is granted; a course with a "D" grade cannot be used as a prerequisite. | 1                       |
| 0-49       | F     | Minimum level has not been achieved.  | 0                       |

**Temporary Grades**

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy E-1.5 at [camosun.ca](http://camosun.ca) for information on conversion to final grades, and for additional information on student record and transcript notations.

| Temporary Grade | Description  |
|-----------------|--|
| <b>I</b>        | <i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.  |
| <b>IP</b>       | <i>In progress:</i> A temporary grade assigned for courses that, due to design may require a further enrollment in the same course. No more than two IP grades will be assigned for the same course. <i>(For these courses a final grade will be assigned to either the 3<sup>rd</sup> course attempt or at the point of course completion.)</i> |
| <b>CW</b>       | <i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.  |

7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

**LEARNING SUPPORT AND SERVICES FOR STUDENTS**

There are a variety of services available for students to assist them throughout their learning. This information is available in the College calendar, at Student Services, or the College web site at [camosun.ca](http://camosun.ca).

**STUDENT CONDUCT POLICY**

There is a Student Conduct Policy **which includes plagiarism**. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, at Student Services, and the College web site in the Policy Section.

[ADDITIONAL COMMENTS AS APPROPRIATE OR AS REQUIRED](#)