



## 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 12.30-2.20; 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@camoosun.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

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

*A course manual is for sale in the bookstore.*

### 4. Course Content and Schedule

*Week of*

#### **Week 1 Jan 7**

Introduction to the course

Working with Google Earth

#### **Week 2 Jan 14**

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 Jan 21**

Lab: Geographic inquiry; community mapping

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

Assignment: Spatial data concepts 1

**Week 4 Jan 28**

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 Feb 4**

Lab: Working with topographic maps

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

Assignment: Spatial data models

**Week 6 Feb 11**

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 Feb 18**

Lab: Exploring data with maps – part 1

**READING BREAK****Week 8 Feb 25**

Lab: Exploring data with maps – part 2

Class: **TEST 1**

**Week 9 March 4**

Lab: Exploring data with maps – part 3

Class: Map making

**Week 10 March 11**

Lab: Projects, getting started

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

Class: GIS analysis  
Heywood, Ch. 6

Assignment: Data analysis

**Week 11 March 18**

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

Class: Projects

**Week 12 March 25**

Lab: Data Analysis 2: Overlay

**Theme: Geographic Inquiry  
Act on geographic knowledge**Class: Maps and decision making  
Heywood, Ch. 8**Week 13 April 1**

Lab: Quantitative spatial analysis

Class: **TEST 2****Week 14 April 8**

Projects

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

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
I	<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