



**CAMOSUN COLLEGE**  
**School of Arts & Science**  
**Department of Social Sciences**

**GEOG-217-001**  
**Maps and GIS**  
**Fall 2019**

## **COURSE OUTLINE**

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

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

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### **1. Instructor Information**

(a) Instructor	Emrys Prussin
(b) Office hours	Tuesdays 2:30-3:20 and Thursdays 3:30-4:20
(c) Location	Paul 334
(d) Phone	(250) 370-3288 <b>Alternative:</b> _____
(e) E-mail	prussine@camosun.bc.ca
(f) Website	_____

### **2. Intended Learning Outcomes**

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) Text (Required)

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

Available in the bookstore and library.

The Heywood text provides additional student resources at the website [http://wps.pearsoned.co.uk/ema\\_uk\\_he\\_heywood\\_intro\\_GIS\\_4/](http://wps.pearsoned.co.uk/ema_uk_he_heywood_intro_GIS_4/). Click *Student Resources*. In particular, students are encouraged to use the multiple-choice questions to test their understanding of the concepts introduced in each chapter.

(b) Course Manual (Required)

Contains all of the labs and assignments and is available in the bookstore.

#### 4. Course Content and Schedule

Schedule is subject to change at instructor's discretion.

Week		Wednesday (Lecture)	Friday (Lab)	Assignment	Reading
1	02-Sep	Introduction	Introduction to ArcGIS	None	None
2	09-Sep	Geographic Tools and Inquiry	Geographic inquiry; community mapping	Mental mapping	Chapter 1
3	16-Sep	Spatial Data Concepts 1	Maps - working with spatial concepts	Spatial data concepts 1	Chapter 2
4	23-Sep	Spatial Data Concepts 2	Working with topographic maps	Spatial data concepts 2	Chapter 2
5	30-Sep	<b>QUIZ I</b>	Geocaching	None	None
6	07-Oct	Spatial Data Modelling	Working with vector and raster data models	Spatial data modelling	Chapter 3
7	14-Oct	Working with Spatial and Attribute Data	Exploring data with maps - part 1	Working with spatial and attribute data	Chapter 4, 5
8	21-Oct	Making Maps	Exploring data with maps - part 2	Map making	None
9	28-Oct	<b>QUIZ II</b>	Exploring data with maps - part 3	None	None
10	04-Nov	Data Analysis	Data analysis 1: Query, buffer, surface analysis, interpolation	Data analysis	Chapter 6
11	11-Nov	Projects, getting started	Data Analysis 2: Working with overlay	None	None
12	18-Nov	Maps and Decision Making	Quantitative spatial analysis and mapping: Working with thematic maps	Map critique	Chapter 7
13	25-Nov	<b>QUIZ III</b>	Projects	None	None
14	02-Dec	Projects	Projects	None	None

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

Labs/Assignments	65%
Project	20%
Quizzes	15%

(a) Labs and Assignments

Each week labs and assignments are introduced to reinforce understanding of course concepts and their application to practice. Unless otherwise stated, these are due the following week.

(b) Quizzes

There will be three quizzes held in class.

(c) Project

You be required to complete a term project that draws on the GIS skills you have gained in class. This project is to be completed on your own and will be described in detail in class.

## 6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

## 7. College Supports, Services and Policies



### Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

### College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

### College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

### A. GRADING SYSTEMS <http://camosun.ca/about/policies/index.html>

The following two grading systems are used at Camosun College:

#### 1. 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		1
0-49	F	Minimum level has not been achieved.	0

## 2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

## B. 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 at <http://camosun.ca/about/policies/index.html> 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.
IP	<i>In progress:</i> A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	<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.