



CAMOSUN COLLEGE
School of Arts & Science
Department of Social Sciences

GEOG-217-001
Maps and GIS
Fall 2018

COURSE OUTLINE

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.

1. Instructor Information

| | | | |
|------------------|------------------------------------|--------------|--|
| (a) Instructor | Tim Elkin | | |
| (b) Office hours | Tues 10.30–12.20; Thurs 11.30–1.20 | | |
| (c) Location | E238 | | |
| (d) Phone | 370-3115 | Alternative: | |
| (e) E-mail | elkint@camosun.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

Ian Heywood, An Introduction to Geographical Information Systems. 2012 (customized 4th edition). Prentice Hall.

A course manual is for sale in the bookstore

4. Course Content and Schedule

Week of

Week 1 Sept 3

Introduction to the course

Lab: Introduction to ArcGIS

Theme: Geographic Inquiry

Asking geographic questions/defining concepts

Week 2 Sept 10

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

Assignment: Mental mapping

Lab: Geographic inquiry

Week 3 Sept 17

Class: Understanding spatial data concepts 1
Heywood, Ch. 2

Assignment: Spatial data concepts 1

Lab: Maps – working with spatial concepts

Week 4 Sept 24

Class: Understanding spatial data concepts 2
Heywood, Ch. 2

Assignment: Spatial data concepts 2

Lab: Working with topographic maps

Week 5 Oct 1

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

Assignment: Spatial data models

Lab: Working with vector and raster data models

Week 6 Oct 8

Class: **QUIZ 1**

Lab: Reflecting on the nature of maps and mapping

Theme: Geographic Inquiry

Acquiring geographic resources/exploring geographic data

Week 7 Oct 15

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

Assignment: Collecting spatial and attribute data

Lab: Exploring data with maps – part 1

Week 8 Oct 22

Class: Map making

Lab: Exploring data with maps – part 2

Week 9 Oct 29

Class: **QUIZ 2**

Lab: Exploring data with maps – part 3

Theme: Geographic Inquiry
Analyzing geographic information

Week 10 Nov 5

Class: GIS analysis
Heywood, Ch. 6

Assignment: Data analysis

Lab: Data Analysis 1

Week 11 Nov 12

Class: Projects, getting started

Lab: Data Analysis 2

Theme: Geographic Inquiry: Act on geographic knowledge

Week 12 Nov 19

Class: Maps and decision making
Heywood, Ch. 8

Assignment: Map critique

Lab: Quantitative spatial analysis and mapping: working with thematic maps

Week 13 Nov 26

Class: **QUIZ 3**

Lab: Projects

Week 14 Dec 3

Class/lab: Projects

5. Basis of Student Assessment (Weighting)

| | |
|---------------------|-----|
| Quizzes | 20% |
| Lab/class exercises | 60% |
| Project | 20% |

6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

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

8. 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. |