

COURSE SYLLABUS



COURSE TITLE: ENVR-140: Fundamentals of GIS

CLASS SECTION: 001 and 002

TERM: Fall 2021

COURSE CREDITS: 3

DELIVERY METHOD(S): Lecture Lab

Camosun College campuses are located on the traditional territories of the Lək̓ʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

Learn more about Camosun's [Territorial Acknowledgement](#).

For COVID-19 information please visit <https://legacy.camosun.ca/covid19/index.html>

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.

INSTRUCTOR DETAILS

NAME: Steve Hann

EMAIL: hann@camosun.bc.ca

OFFICE: F314D

HOURS: Tuesday 1700 – 1800; Thursday 1700 – 1800; or by appointment

As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.

CALENDAR DESCRIPTION

This course will expand basic theories of GIS and introduce students to using ArcInfo. They will be exposed to GIS vocabulary, the concepts of topology, and creating, managing and analyzing vector data, and incorporation of attribute data in a tutorial-like setting, using environmental examples to support theories.

PREREQUISITE(S):

All of:

- C in GEOG 219

CO-REQUISITE(S):

Not Applicable

EXCLUSION(S):

Not Applicable

COURSE LEARNING OUTCOMES / OBJECTIVES

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

1. Create digital data from hard copy manuscripts.
2. Edit data to create topologically correct datasets.
3. Add attribute information to digital data.
4. Use skills learned to perform overlay analysis of data.
5. Perform queries on data using logical and arithmetic expressions.
6. Perform coordinate editing on spatial data.
7. Use skills learned to manage and store digital data.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Text: Getting to know ArcGIS for Desktop – 6th ed. for ArcGIS 10.8, Michael Law & Amy Collins

Vital source version:

<https://www.vitalsource.com/en-ca/products/getting-to-know-arcgis-desktop-10-8-michael-law-amy-collins-v9781589485785>

Kindle version through Amazon:

https://www.amazon.ca/Getting-Know-ArcGIS-Desktop-10-8-ebook/dp/B08NCT17DX/ref=sr_1_1?dchild=1&keywords=getting+to+know+ArcGIS+desktop+sixth+edition&qid=1630988564&s=books&sr=1-1

COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION

The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
1	Introduction to course Interacting with maps and data	Lab 1: Readings chapters 1 & 2 Lab 2: Chapters 3 and 4
2	Symbolizing and Classifying features Labelling Features	Lab 1: Chapters 7 & 8 Lab 2: Chapter 9
3	Making maps for presentation Quiz 1 review	Lab 1: Chapter 10 Lab2: Review class
4	Quiz 1 No class	Lab 1: Quiz 1 Lab 2: No class
5	ArcGIS Online and Working with coordinate systems and projections Building Geodatabases	Lab 1: Chapters 5 & 6 Lab 2: Chapter 11
6	Creating and Editing features Quiz 2 review	Lab 1: Chapters 12 & 13 Lab 2: Review class
7	Quiz 2 Querying data by attribute and location	Lab1: Quiz 2 Lab 2: Chapters 15 & 16
8	Joining and relating data	Lab 1: Chapter 17 Lab 2: Practice exercises
9	Quiz 3 review Quiz 3	Lab 1: Review class Lab 2: Quiz 3

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
10	Term project workday Preparing data for analysis	Lab 1: Term project workday Lab 2: Chapter 18
11	Geoprocessing vector data	Lab 1: Chapter 19 Lab 2 Practice exercises
12	Geoprocessing vector data	Lab 1: Practice exercises Lab 2: Review class
13	Quiz 4 Term project workday	Lab 1: Quiz 4 Lab 2: Term project workday
14	Term project	Lab 1: Term project workday Lab 2: Term project workday
15	Term project	Lab 1: Term project presentation

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced notice is required. Deadlines can be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

EVALUATION OF LEARNING

DESCRIPTION	WEIGHTING
Quizzes (4 x 10% each)	40%
Term Project	25%
Final Exam	30%
Instructor Assessment (attendance and class participation)	5%
	TOTAL
	100%

If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. Refer to the [Grade Review and Appeals](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information. <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

COURSE GUIDELINES & EXPECTATIONS

Attendance to every class is expected. I understand that illness or life sometimes will necessitate you missing class, but it is expected that you let me know via e-mail if you will not be in class on any given day. This will allow me to let you know what you can do in order to not fall behind. This will form part of your Instructor Assessment mark.

If you find you are having difficulty with the material or keeping up, please see me as soon as possible as we can work on strategies that may help.

SCHOOL OR DEPARTMENTAL INFORMATION

See program website

STUDENT RESPONSIBILITY

Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

SUPPORTS AND SERVICES FOR STUDENTS

Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit <http://camosun.ca/students/>.

Academic Advising	http://camosun.ca/advising
Accessible Learning	http://camosun.ca/accessible-learning
Counselling	http://camosun.ca/counselling
Career Services	http://camosun.ca/coop
Financial Aid and Awards	http://camosun.ca/financialaid
Help Centres (Math/English/Science)	http://camosun.ca/help-centres
Indigenous Student Support	http://camosun.ca/indigenous
International Student Support	http://camosun.ca/international/
Learning Skills	http://camosun.ca/learningskills
Library	http://camosun.ca/services/library/
Office of Student Support	http://camosun.ca/oss
Ombudsperson	http://camosun.ca/ombuds
Registration	http://camosun.ca/registration
Technology Support	http://camosun.ca/its
Writing Centre	http://camosun.ca/writing-centre

If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

Academic Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started:

<http://camosun.ca/services/accessible-learning/>

Academic Integrity

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

Academic Progress

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

Course Withdrawals Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

Grading Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

Grade Review and Appeals

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

Mandatory Attendance for First Class Meeting of Each Course

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the "Attendance" section under "Registration Policies and Procedures"

(<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

Medical / Compassionate Withdrawals

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal. Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

Sexual Violence and Misconduct

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun's Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence or misconduct occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student's right to choose what is right for them. For more information see Camosun's Sexualized Violence and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and camosun.ca/sexual-violence. To contact the Office of Student Support: oss@camosun.ca or by phone: 250-370-3046 or 250-3703841

Student Misconduct (Non-Academic)

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College's Student Misconduct Policy at <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College's expectations of academic integrity and student behavioural conduct.

Changes to this syllabus: Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.