



COURSE OUTLINE

The course description is online @ <http://camosun.ca/learn/calendar/current/web/envr.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 3.30-4.20; Wed 10.30-11.20; Thurs 3.30-4.20; Fri 10.30-11.20		
(c)	Location:	E238		
(d)	Phone:	250-370-3115	Alternative Phone:	
(e)	Email:	elkint@camosun.bc.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.)

On completing the course students should be able to

- Demonstrate an understanding of key concepts in environmental management, including sustainability, precautionary principle, preventive approach and demand management.
- Demonstrate an ability to use specific techniques and tools in environmental management, including environmental reports and environmental indicators, carbon footprint measurement tools, and auditing and environmental management systems

3. Required Materials

Paul Hawken, 2010, Ecology of Commerce. Harper

Exerpts from the following works:

Paul Hawken, Amory B. Lovins and L. Hunter Lovins, 2010. Natural Capitalism The Next Industrial Revolution Second Edition. Earthscan

Jane Roberts, 2010, Environmental Policy. Routledge

Mark Roseland, ed., 1997, Eco-City Dimensions. New Society

Patrick Condon, 2010, Seven Rules for Sustainable Communities. Island Press

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 1

Week of

Sept 5

CLASS 1/

Introduction to course

CLASS 2

What is a sustainable community?

Reading:

Paul Hawken, text Ch.1-3

Patrick Condon, *Introduction, Seven Rules for Sustainable Communities*.

NFB, 2006, Radiant City (video)
http://www.nfb.ca/film/radiant_city

West Hills, Langford: <http://www.westhillsbc.com/>
West Hills Story and Foundation Principles: <http://www.westhillsbc.com/profile>

WEEK 2

Sept 12
CLASS 1

Environmental management: Key concepts

Focus on the urban region
Defining sustainability

Project: Measuring a Carbon Footprint

Reading:

Paul Hawken, Amory B. Lovins and L. Hunter Lovins, 2010. Chapter 1: The Next Industrial Revolution *Natural Capitalism The Next Industrial Revolution* Second Edition. Earthscan

UBC, *Sustainable urban landscapes, setting the context: water, air, people* (pp. 8-15)

http://www.jtc.sala.ubc.ca/projects/DesignManual/Setting_context1.pdf

Lyle Walker and William Rees, 1997, *Urban Density and Ecological Footprints: An Analysis of Canadian Households*, in Roseland M., ed., 1997, *Eco-City Dimensions*. New Society

CLASS 2

Environmental management: Managing risk

Working with standards
Ecologic and carbon footprints
Carbon neutrality: Case of BC government

Introduction to project: Air quality

WEEK 3

Sept 19
CLASS 1/
CLASS 2

Addressing risk: Managing Air quality

Guests: CRD, Sara Webb/Jeff Weightman

WEEK 4

Sept 26
CLASS 1/
CLASS 2

Project: Air quality

WEEK 5

Oct 3
CLASS 1

Addressing risk: Managing the hydrologic cycle
Low Impact Development
Introduction to Project: Managing the hydrologic cycle

Reading:

Patrick Condon, *Invest in Lighter, Greener, Cheaper, Smarter Infrastructure. Seven Rules for Sustainable Communities*

CLASS 2 Site visit: Selkirk Waterfront (Guest: Terry Kopek, D'Ambrosio Urbanism))

WEEK 6

Oct 10

CLASS 1/ CLASS 2 Project: Managing the hydrologic cycle

WEEK 7

Oct 17

CLASS 1 **Environmental management: Participants**

Stakeholder involvement
Corporate responsibility
Environment management Systems
The Natural Step

Reading:

Paul Hawken, text Ch.4-7

Jane Roberts, Ch. 5, *Corporate Environmental Policy Making*

A Natural Step Case Study: Canmore, Alberta

http://www.thenaturalstep.org/sites/all/files/Canmore_TNScasesstudy.pdf

Introduction to project: EMS at Camosun College

CLASS 2 Green building and LEED

Guest: Wendy Macdonald

WEEK 8

Oct 24

CLASS 1 **Environment management Systems – ISO 14001**

Site Visit Esquimalt graving dock
Daryl Lawes/Melissa Piasta

Reading:

International Standards Organization, *ISO 14001 - Environmental management systems – Specification with guidance for use*, 1996.

Stapleton, Philip J., and Margaret A. Glover, *Environmental Management Systems: Implementation Guide for Small and Medium-Sized Organizations*, 2001. NOTE: 201 PAGES

CLASS 2 Project: EMS at Camosun College

WEEK 9

Oct 31

CLASS 1 Project: EMS at Camosun College

CLASS 2 **Environmental management: Decision making**

Reading:

Paul Hawken, text Ch.8, 9

Moore J., *Inertia and Resistance on the Path to Healthy Communities*, in Roseland M., ed., 1997, *Eco-City Dimensions*. Gabriola Island, BC: New Society

WEEK 10

Nov 7

CLASS 1 **Environmental Management: Key Issues**
Land use and transportation
Guest: Todd Litman, Victoria Transport Policy Institute

Reading:

Todd Litman, 2011, *Evaluating Transportation Land Use Impacts*
<http://www.vtpi.org/landuse.pdf>

Pedal Power, 2009, CBC Documentary (45 mins)
<http://www.cbc.ca/documentaries/doczone/2009/pedalpower/>

Jay Walljasper, 2005, *New Lessons from the Old World*, E Magazine
<http://www.emagazine.com/archive/2307>

CLASS 2 REMEMBRANCE DAY

Week 11

Nov 14

CLASS 1/ Project: Land use and transportation

CLASS 2

WEEK 12

Nov 21

CLASS 1/2 Sustainability revisited

Project: Land use and transportation

WEEK 13

Nov 28

CLASS 1/ Project: Environmental management

CLASS 2

WEEK 14

Dec 5

CLASS 1/2 Project: Environmental management

5. Basis of Student Assessment (Weighting)

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

Projects (90%)

Project: Carbon footprint

Project: Air quality

Project: Managing the hydrologic cycle: Low Impact Development

Project: EMS at Camosun College

Project: Land use and Transportation

Project: Environmental management

Participation (10%)

Course evaluation is based on participation in all aspects of the course. In an applied academic course of this nature, participation is essential if students are to be successful. Students are expected to be fully involved in the course by attending **all class events** – lectures and site visits - and by contributing to discussion at these events.

At the end of the semester students will hand in the evaluation form assessing their participation in the course.

Students are equally expected to fully participate in all project work in which students work in small groups to tackle a problem and present a report based on their findings. Student groups have the option to hand in, with each report, an evaluation of student member participation in the project, if participation in the work has not been equal for all students.

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 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, 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. (For these courses a final grade will be assigned to either the 3 rd course attempt or at the point of course completion.)
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.

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.

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