

COURSE DESCRIPTION

Grading Systems



CAMOSUN COLLEGE
School of Arts & Science
Environmental Technology

Envr 209 Waste Management Remediation
Spring 2010

COURSE OUTLINE

This course covers pollution control, waste management principles and techniques and the concept of industrial ecology. Particular emphasis is given to hazardous secondary materials management, hazardous spill prevention and clean up, contaminated site remediation and associated legislation.

Prerequisites: ENVR 110 and CHEM 121.

For current information on the coverage of topics in this term see the course schedule below.

1. Instructor Information

- (a) Instructors: George Giles, P. Eng, Steve Sakiyama
- (b) Office hours: Tuesdays 4:30 to 5:00 pm; by appointment
- (c) Location: Fisher 216
- (d) Phone: TBA
Alternative: 250-477-2202
- (e) E-mail: ggiles@xplornet.com
- (f) Website: D2L - online

2. Intended Learning Outcomes

At the end of this course, students will be able to:

1. Discuss basic waste management technology
2. Demonstrate skills in contingency planning, basic training in marine oil spill response, and oil spill management
3. Discuss provincial and federal legislation on
 - a. Solid, liquid and gaseous waste management
 - b. Transportation of hazardous wastes
 - c. Environmental Impact Assessment
 - d. Contaminated Site Remediation
 - e. Management of hazardous and toxic wastes
 - f. Marine pollution
4. Outline how to conduct a preliminary site investigation and develop a site profile for a potentially contaminated site

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5. Discuss environmentally sound waste management options such as
 - a. Pollution prevention (PP or P2)
 - b. Environmental management systems (EMS's)
 - c. Waste reduction, recycling and reuse (WR3)
6. Discuss the analytical techniques for some of the more common pollutants
7. Participate in an oral discussion of environmental pollution and monitoring of the environment
8. Discuss the role and response of society to environmental issues.

3. Required Materials

(a) Texts – The Following text is optional: Nathanson, J., “Basic Environmental Technology, 4th Edition.” Prentice Hall. Columbus, Ohio.2003. There are two copies on special reserve in the library; students might find purchase of the book worthwhile however, both for this course and a general reference. Available from the Camosun Bookstore.

Other N/A

4. Course Content and Schedule

The attached schedule shows the dates, times, places and topics of the class periods. The course will consist of lectures, field trips and include invited speakers.

For field trips, wear clothing that will keep you warm and dry and which you don't mind getting a bit grubby. Proper shoes with closed toes and heels are particularly important. Waterproof boots with good tread are recommended for the visit to the Esquimalt graving dock.

Attendance will not be taken; however, be aware that the final grade will be based in part on field trip reports and that the examinations will be based on all of the lectures, field trips and presentations by guest lecturers. You will obtain maximum benefit from full attendance and class participation. This course covers a lot of material in a wide variety of topics; you will have no opportunity to “catch up” in the next lecture.

5. Basis of Student Assessment (Weighting)

	%
Quizzes	10
Field Trip Reports	30
Mid-term Exam	25
Final Exam	35
TOTAL	100

6. Grading System

(No changes are to be made to this section, unless the Approved Course Description has been forwarded through EDCO for approval.)

Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7

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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: 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.</i>
IP	<i>In progress: 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 3rd course attempt or at the point of course completion.)</i>
CW	Compulsory Withdrawal: 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

Computer with high-speed internet access, email, MS Office.

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, Registrar's Office or the College web site at <http://www.camosun.bc.ca>

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ACADEMIC CONDUCT POLICY

There is an Academic Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section.

<http://www.camosun.bc.ca/becoming/policies.html>

Note and Warning: Mr. Giles will enforce the policy on plagiarism rigorously with zero tolerance. Do not copy anything from published sources or another student that violates policy.

Course Schedule.

ENVR 209 - SPRING 2010 SCHEDULE. SUPERCEDES VERSIONS DATED BEFORE MAY 6 2010

Note: Dates for student presentations are tentative and subject to change.

Note: Spot quizzes anytime!!

DATE		Morning	Afternoon
		AM 9:30 to 11:50 normally. In F212	PM 1:00 to 3:20 pm normally. In F212
Monday	3-May	intro; environmental chemistry and biology assignment; water hydraulics and pumps	assignment of presentations; pumps; sanitary sewers
Tuesday	4-May	sewer walkabout. Pumps	Clover Pt pump station site visit
Monday	10-May	Hydraulics lab. Room 105, Technologies Bldg, Interurban Campus; 9:30 to 11:30 Group A & Carlos; for others, time to do Biol/chem quiz on D2L	sanitary sewers, storm sewers
Tuesday	11-May	Student Presentations: 1. Sewage Treatment; 2. Solid Waste Management	site visit Peninsula STP 2:00 pm at site
Monday	17-May	Hydraulics lab. Room 105, Technologies Bldg, Interurban Campus; 9:30 to 11:30 Group B & Sean; for others, time to do Biol/chem quiz on D2L	Student Presentations: 3. Hazardous Materials and Wastes; 4. Oil Spills
Tuesday	18-May	Student Presentations: 5. Contaminated Sites; 6. Env'l Audits and Phase 1 ESA's	Site visit Hartland Rd landfill site. 2:00 pm at site
Monday	24-May	HOLIDAY	HOLIDAY
Tuesday	25-May	MID-TERM EXAM	Student Presentations: 7. Env'l Mgt Systems and ISO14001; 8. Environmental Project Assessment

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Monday	31-May	Guest Lecture on Env. Law - Janice Walton	Guest Lecture on BC Contaminated Sites - Mike McFarlane, MOE
Tuesday	1-Jun	Review Mid-term exam and biol/chem quiz	Student Presentations: 9. Noise Pollution; 10. Water Treatment
Monday	7-Jun	9:30-11:50 am lecture by Steve Sakiyama re: air pollution	1 - 4:30 pm field trip and discussion
Tuesday	8-Jun	9:30-11:50 am lecture by Steve Sakiyama re: air pollution	1 - 4:30 pm field trip and discussion
Monday	14-Jun	Esquimalt Graving Dock Group A & Carlos (tentative)	Esquimalt Graving Dock Group B & Sean (tentative)
Tuesday	15-Jun	TBA	Review for Exam
	indicates tentative need for the bus.		

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Day	Date	Details
Monday	07 May 2007	intro; environmental chemistry and biology; water flow; sewers
Tuesday	08 May 2007	hydraulics lab (8:30 - 11:30); sewage treatment lecture pm
Monday	14 May 2007	hydraulics lab (8:30 - 11:30); sewage treatment lecture pm
Tuesday	15 May 2007	site visit Peninsula STP 1:00 pm
Monday	21 May 2007	Statutory holiday
Tuesday	22 May 2007	solid waste management, stormwater management lectures
Monday	28 May 2007	Site visit Clover Point ; Site visit Hartland Rd landfill site
Tuesday	29 May 2007	oil spills lectures ; pulp and paper lecture
Monday	04 June 2007	Catalyst pulp mill in Crofton site visit (lv 8:30 am sharp) 24 passenger bus; MID-TERM EXAM
Tuesday	05 June 2007	Graving Dock lecture and tour re ISO 14001 10:15 am (lv at 9:45 am); lectures on hazardous wastes and contaminated sites in pm (12:30 - 5:00 pm)
Monday	11 June 2007	Guest lecture by MWLAP re: air pollution; pm lecture on environmental site assessment, cont'd sites
Tuesday	12 June 2007	Guest lecture by MWLAP re: air pollution; pm continue lecture on environmental site assessment, cont'd sites (possible Coast Guard site visit)
Wednesday	20 June 2007	air pollution monitoring site visit; pm continue lecture on environmental site assessment, cont'd sites
Thursday	21 June 2007	Guest lecture on Rock Bay site remediation; review for exam