



COURSE OUTLINE

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for your records.

1. Instructor Information

- (a) Instructor: Dr. Anna Colangeli
- (b) Office hours: Monday 12:30 -2:20; Thursday 1:00 – 2:00
- (c) Location: Ewing 270
- (d) Phone: 250-370-3459
- (e) E-mail: colangel@camosun.bc.ca
- (f) Web site: <https://online.camosun.ca/>

2. Intended Learning Outcomes

Upon successful completion, the student will be able to:

- 1. Use their knowledge of sterile lab technique to work safely with microorganisms in a lab environment.
- 2. Apply their understanding of the critical role of microorganisms in maintaining and remediating the environment to assess the consequences of human activities.

3. Required Materials

- (a) Lab Manual: from Course D2L site
- (b) Lab Coat (may be supplied by the department)
- (c) Lecture note outlines, print from D2L:

4. Course Content and Schedule

Lecture: 1 hour / week Ewing 201
Mon: 9:30-10:20

Lab: 2 hours / week Fisher 222
Tues: 9:30 – 11:20 OR
Tues: 2:30 – 4:20

**ENVR.103 SCHEDULE
WINTER 2014**

Week	LECTURE TOPIC	LAB EXERCISE
	Monday	Tuesday
1 Jan 6/7	Lec. 1: Course Introduction	Lab Safety LAB 1: Microscopy
2 Jan 13/14	Lec. 2: Bacterial Cell Structure and Function	LAB 2: Isolation Techniques Environmental Isolate Experiment
3 Jan 20/21	Structure and Function (continued)	LAB 3: Bacterial Stains
4 Jan 27/28	Lec. 3: Growth and Control	LAB 4: Chemical and Physical Methods of Control
5 Feb 3/4	Growth and Control (continued)	LAB 5: Growth Parameters
6 Feb 11	NO Lecture: Holiday Monday	LAB 6: Culture Media
7 Feb 17/18	Lec. 4: Bacterial Metabolism	LAB 7: Soil Bacteria: Nitrogen and Sulphur Cycles
8 Feb 24/25	Lec. 5: Microbial Ecology: Population Interactions	Lab Exam 1 (Labs 1-5) Lecture Exam 1 (Lectures 1-4)
9 Mar 3/4	Lec 6: Microbial Ecology Biogeochemical Cycling	LAB 8: Bioremediation: Isolation of Oil Degrading Bacteria
10 Mar 10/11	Lec. 7: Sanitary Microbiology: Water Testing, BOD	LAB 9: Enterobacteriaceae
11 Mar 17/18	Sanitary Microbiology: Wastewater Treatment	LAB 10: Detecting Coliform Bacteria in Water
12 Mar 24/25	Sanitary Microbiology: Drinking Water	LAB 10 continue EI Identification
13 Mar 31/ Apr 1	Lecture Exam 2 (Lectures 5-7)	LAB 10 continue EI Identification
14 Apr 7/8	Review	Lab Exam 2 (Labs 6-10)

The course schedule is provided to allow you to prepare for your labs in advance. The schedule and exam dates are subject to change as need arises. Since this is a lab-based course, attendance in the lab is mandatory. Students who miss labs without a valid medical excuse may be required to repeat the course. *Students who miss more than 2 hours of lab without a valid medical excuse will be docked 1% of their course mark per lab hour missed.*

Although labs are performed with a partner, all written material to be handed in for grading is to be presented individually. Plagiarism, including the copying of any part of assignments, laboratory reports, quizzes or exams is a serious offense and is considered to be an academic misconduct.

The final lecture exam will be comprehensive; however emphasis will be placed on previously untested material.

Students are expected to write all tests and exams when scheduled. It is the student's responsibility to notify the instructor *in advance* if an exam must be missed. The student will be required to provide verification of emergency circumstance (i.e. note from Doctor) in order to write a make-up exam. Please do not schedule vacations during final exam period.

5. Basis of Student Assessment (Weighting)

- (a) Assignments: 20% of grade**
 - Environmental Isolate Project 5%**
 - Assignments and Lab Reports 15%**

- (b) Quizzes: 5% of grade**
 - Weekly prelab quizzes**

- (c) Exams:**
 - Lecture Exam 1 = 20%,**
 - Lecture Exam 2 = 20%**
 - Lab Exam 1 = 15%**
 - Lab Exam 2 = 20%**

6. Grading System

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

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

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.

www.camosun.bc.ca/divisions/pres/policy/2-education/2-5.html