



School of Arts & Science
BIOLOGY DEPARTMENT
BIOL 160
Microbiology for Dental Hygiene
Fall 2014

COURSE OUTLINE

The course description is online @ <http://camosun.ca/learn/calendar/current/web/biol.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:	Dr. Anna Colangeli		
(b)	Office Hours:	M, Tu, W 11:30-12:20; Tu, W, Th 10:30 -11:20; other times by appointment		
(c)	Location:	Fisher 252B		
(d)	Phone:	250-370-3388	Alternative Phone:	
(e)	Email:	colangel@camosun.bc.ca		
(f)	Website:	https://online.camosun.ca		

2. Intended Learning Outcomes

(No changes are to be made to these Intended Learning Outcomes as approved by the Education Council of Camosun College.)

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

1. Use aseptic techniques in the microbiology lab.
2. Summarize the role of microorganisms in oral health and disease processes.
3. Evaluate the role of dental hygienists in preventing the spread of infectious disease in the dental clinic.

3. Required Materials

- (a) Other: Lab Coat (supplied by Biology Dept.)
- (b) Lecture outlines and laboratories will be posted on course D2L website.

4. Course Content and Schedule

Lecture:	Monday:	1:30 – 2:20	Young 316
Laboratory:	Wednesday:	X01A: 3:30 – 5:20	Fisher 222
		X01B: 1:30 – 3:20	Fisher 222

**Biology 160: Microbiology for Dental Hygiene
SCHEDULE - FALL 2014**

Week	Dates	LECTURE TOPIC	LAB EXERCISE
		Monday	Wednesday
1	Sept 3	<i>Labour Day, No class</i>	Lec. 1: Relevance and History of Microbiology Introduction to the Microbiology Lab and Lab Safety
2	Sept 8/10	Lec. 2: Classification and Diversity	LAB 1: Isolation Techniques
3	Sept 15/17	Lec. 3: Bacterial Cell Structure and Function	LAB 2: Microscopy
4	Sept 22/24	Lec. 3: Structure and Function – continued	LAB 3: Bacterial Stains
5	Sept 29 Oct 1	Lec. 4: Growth and Control	LAB 4: Controlling Microbial Growth by Physical Means
6	Oct 6/8	Lec 4 continued: Antibiotic Resistance	LAB 5: Growth Parameters
7	Oct 15	<i>Thanksgiving Day</i>	LAB 6: Controlling Microbial Growth by Chemical Means
8	Oct 20/22	Lec. 5: Bacterial Metabolism	Midterm Exam – 15% Lab Quiz #1 – 15% (Labs 1-5)
9	Oct 27/29	Lec. 6: Host/Parasite Interactions: Host Factors	LAB 7: Bacterial Metabolism
10	Nov 3/5	Lec. 7: Host/Parasite Interactions: Microbe Factors	LAB 8: Fermentation and Respiration
11	Nov 10/12	Lec. 8: Viruses / Influenza	LAB 9: ELISA for Tracking Hepatitis B Outbreak
12	Nov 17/19	Lec. 9: Oral Flora and Plaque Formation	LAB 10: Caries Susceptibility
13	Nov 24/26	Lec 9: Oral Flora and Plaque Formation - continued	LAB 11: Oral Protozoa and Yeast
14	Dec 1/3	Lec. 10: Infection Control / Review	Lab Quiz #2 - 20% (Labs 6-11)

5. Basis of Student Assessment (Weighting)

LECTURE: 60% of course mark

Midterm 15% - Oct. 22

Final 35% - to be scheduled during final exam period

Assignments 10%

LAB: 40% of course mark

Prelab Quizzes 5%

Lab Quiz #1 15% - Oct. 22

Lab Quiz #2 20% - Dec. 3

A 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.

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 ^d 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.

