



**CAMOSUN COLLEGE**  
*School of Arts & Science*  
*Biology Department*

***Biology 160 Microbiology for Dental Hygiene***  
***Fall 2011***

**COURSE OUTLINE**

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**1. Instructor Information**

- (a) Instructor: Linda Scotten
- (b) Office hours: Mon, Wed.: 10:30-11:20, Thurs: 1:30-2:20
- (c) Location: Fisher 342A
- (d) Phone: 370-3482
- (e) E-mail: [lscotten@camosun.bc.ca](mailto:lscotten@camosun.bc.ca)
- (f) Web site: <http://faculty.camosun.ca/lindascotten>

**2. Intended Learning Outcomes**

Upon completion of this course, you 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 your role as dental hygienists in preventing the spread of infectious disease in the dental clinic

**3. Required Materials**

- (a) Texts: Lab manual and Anthology Text for Biology 160
- (b) Other: Lab Coat (may be supplied by Biology Dept.)
- (c) Lecture outlines will be posted on my website:  
<http://faculty.camosun.ca/lindascotten>

#### 4. Course Content and Schedule

### Biology 160: Microbiology for Dental Hygiene

#### SCHEDULE - FALL 2011

Week	LECTURE TOPIC Thursday	Text Ref:	LAB EXERCISE Tuesday
1	Lec. 1: Relevance and History of Microbiology	Morello et al p. 1-6	Intro. to the Microbiology Lab and Lab Safety
2	Lec. 2: Classification and Diversity		LAB 2: Isolation Techniques
3	Lec. 3: Bacterial Structure and Function	Tortora et al p. 7-26	LAB 1: Microscopy
4	Structure and Function – continued	p. 7-26	LAB 3: Bacterial Stains
5	Lec. 4: Growth and Control	Alcamo p. 27-47	LAB 4: Controlling Microbial Growth by Heat
6	Antibiotic Resistance	JADA p. 48-53	LAB 5: Controlling Microbial Growth by Chemical Means
7	<b>Midterm Exam – 20%</b> (Oct. 20)		LAB 6: Controlling Microbial Growth by Physical Means
8	Lec. 5: Bacterial Metabolism	Jensen, Wright p. 54-65	<b>Lab Quiz #1 – 15% (Labs 1-5)</b>
9	Lec. 6: Host/Parasite Interactions: Host Factors	Saladin p. 66-77	LAB 7: Bacterial Metabolism
10	Lec. 7: Host/Parasite Interactions: Microbe Factors	Bauman p. 78-92	LAB 8: Fermentation and Respiration
11	Lec. 8: Viruses	Pommerville p.93-105	LAB 9: ELISA for Tracking Hepatitis B Outbreak
12	Lec. 9: Oral Flora and Plaque Formation	Wilkins p. 106-118	LAB 10: Caries Susceptibility
13	Oral Flora and Plaque Formation - continued	Cobb p.119-124	LAB 11: Oral Protozoa and Yeast
14	Lec. 10: Infection Control	Bagg et al. p. 125-131	<b>Lab Quiz #2 - 25% (Labs 6-11)</b>

## 5. Basis of Student Assessment

LECTURE: 50% of course mark

Midterm 20% - Oct. 20

Final 30% - to be scheduled during final exam period

LAB: 50% of course mark

Assignments, Prelab Quizzes 10%

Lab Quiz #1 15% - Oct. 25

Lab Quiz #2 25% - Dec. 6

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

The following percentage conversion to letter grade will be used:

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

**Note:** Students must achieve at least **70% (B-)** to proceed within the Dental Hygiene program.

## 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](http://www.camosun.bc.ca/divisions/pres/policy/2-education/2-5.html)