



**School of Arts & Science  
BIOLOGY DEPARTMENT**  
**BIOL 160-X01A and X01B**  
**Microbiology for Dental Hygiene**  
**2007F**

## COURSE OUTLINE

The Approved Course Description is available on the web @ \_\_\_\_\_

Ω Please note: this outline will be electronically stored for five (5) years only.  
It is strongly recommended students keep this outline for your records.

### 1. Instructor Information

(a)	Instructor:	Linda Scotten
(b)	Office Hours:	Mon, Tues & Fri: 10:30-11:20, Mon & Thurs: 2:00-3:00
(c)	Location:	F342A
(d)	Phone:	370-3482
(e)	Email:	lscotten@camosun.bc.ca
(f)	Website:	<a href="http://scotten.disted.camosun.bc.ca/">http://scotten.disted.camosun.bc.ca/</a>

### 2. Intended Learning Outcomes

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)	Texts	Lab Manual and Anthology Text for Biology 160
(b)	Other	Lab coat (may be supplied by Biology Dept.) Lecture outlines will be posted as PDF files on my web site <a href="http://scotten.disted.camosun.bc.ca/">http://scotten.disted.camosun.bc.ca/</a>

#### 4. Course Content and Schedule

### Biology 160: Microbiology for Dental Hygiene Schedule – Fall 2007

Week	LECTURE TOPIC	Text pages	LAB EXERCISE
1	Relevance and History of Microbiology	1-6	Lab Safety LAB 4: Controlling Microbial Growth by Heat
2	Classification and Diversity		LAB 2: Isolation Techniques
3	Bacterial Structure and Function	7-26	LAB 1: Microscopy
4	Structure and Function - continued	7-26	LAB 3: Bacterial Stains
5	Growth and Control	27-47	LAB 5: Controlling Microbial Growth by Chemical Means
6	Antibiotic Resistance	48-53	LAB 6: Controlling Microbial Growth by Physical Means
7	Bacterial Metabolism	54-65	<b>Lab Quiz #1 – 15% (Labs 1-5) Oct. 16</b>
8	<b>Midterm Exam – 20% Oct. 25</b>		LAB 7: Bacterial Metabolism
9	Host/Parasite Interactions: Host Factors	66-77	LAB 8: Fermentation and Respiration
10	Host/Parasite Interactions: Host Factors	66-77	Acellular Infectious Agents Lecture (Text pages 93-105)
11	Host/Parasite Interactions: Microbe Factors	78-92	LAB 9: ELISA for Tracking Hepatitis B Outbreak
12	Oral Flora and Plaque Formation	106-118	LAB 10: Caries Susceptibility
13	Oral Flora and Plaque Formation	106-118	LAB 11: Oral Protozoa and Yeast
14	Infection Control	119-125	<b>Lab Quiz #2 - 25% (Labs 6-11) Dec. 4</b>

## 5. Basis of Student Assessment (Weighting)

(a)	Assignments and lab write-ups	5%
(b)	Prelab Quizzes	5%
(c)	Exams	Lecture midterm 20%, Lecture final 30% Lab midterm 15%, Lab final 25%
(d)	Other	

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

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.***

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.

## 6. Grading System 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
<b>70-72</b>	<b>B-</b>	Required to proceed in Dental Hygiene Program*	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.**

## 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](http://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. <i>(For these courses a final grade will be assigned to either the 3<sup>rd</sup> course attempt or at the point of course completion.)</i>
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](http://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 on the College web site in the Policy Section.