CAMOSUN COLLEGE	***School of Arts & Science*** ***BIOLOGY DEPARTMENT*** **BIOL 104-001** **Infectious Disease** **F2007**

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	Alternative Phone:	
(e)	Email:	lscotten@camosun.bc.ca		
(f)	Website:	http://scotten.disted.camosun.bc.ca/		

2. Intended Learning Outcomes

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

1. Differentiate between bacteria, viruses, fungi, parasites and prions based on structural differences.
2. Analyze the different patterns of transmission and virulence mechanisms used by microorganisms to produce disease.
3. Describe how the nonspecific and specific host defenses work against a variety of organisms.
4. Categorize appropriate methods for treatment and control of infectious agents including physical methods, antibiotics and disinfectants and vaccinations.
5. Demonstrate the ability to practice aseptic technique in the microbiology lab and to use a variety of diagnostic tests to identify infectious agents.

3. Required Materials

(a)	Texts	Lab Manual for Biology 104, includes Anthology Text
(b)	Other	Disposable lab coat for use in Microbiology Lab only Lecture outlines will be posted as PDF files on my web site http://scotten.disted.camosun.bc.ca

4. Course Content and Schedule

Week	**LECTURE TOPIC**	Text Ref.	**LAB EXERCISE**
1	Relevance and History of Microbiology	Alcamo	Lab Safety LAB 4: Physical Methods of Control: Media Preparation
2	Classification and Diversity of Infectious Agents	Evans, Ingraham	LAB 1: Isolation Technique
3	Bacterial Cell Structure and Function		LAB 2: Microscopy/Diversity
4	Growth and Control	Black	LAB 3: Bacterial Stains
5	Antibiotic Resistance	Levy	LAB 5: Growth Parameters LAB 6: Controlling Microbial Growth by Chemical Means
6	*Thanksgiving Day Stat* Bacterial Metabolism	Engelkirk, Burton	LAB 7: Culture Media
7	Bacterial Genetics Viruses	Pommer-ville	**Lab Quiz (10%)** **Labs 1-6**
8	**Midterm Exam (20%)** Viruses: Influenza	Webster, Walker	LAB 8: Microbial Contamination of Food and Water
9	Host Defence: Innate	Pommer-ville	LAB 9: Normal Flora and Pathogens of the Nose and Throat
10	Host Defence: Adaptive	Tortora, et al	LAB 10a: Diagnostic Microbiology
11	*Remembrance Day Stat* HIV/AIDS	Bauman	LAB 10b: Diagnostic Microbiology
12	Emerging infectious Diseases	Morse	LAB 10c: Diagnostic Microbiology
13	Pathogenesis of Infectious Disease	Murray, et al	LAB 11: ELISA for Tracking an HIV Epidemic
14	Epidemiology / Review	Talaro, Talaro	**Lab Quiz (15%)** **Labs 7-11**

The schedule above 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 laboratory based course, attendance in the lab is mandatory. *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.*
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 and lab write-ups	5%
(b)	Prelab Quizzes	5%
(c)	Exams	Lecture midterm 20%, Lecture final 25% Lab midterm 10%, Lab final 15%
(d)	Other	Pathogen Book Project 20%

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
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	*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.
IP	*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.)*
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

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 on the College web site in the Policy Section.