MICROBIOLOGY 402 - VIROLOGY COURSE OUTLINE – Spring 2014 CRN 22174

Instructor: Dr.	Chris Upton; Office: Petch 213; Phone: 721-6507			
Email:	cupton@uvic.ca			
Office Hours:	Open (appointments as required)			
Textbook:	Not required: see Moodle for suggestions			
iClickers	Required: available at bookstore			
Web site	See: moodle.uvic.ca			

TOPICS

Introduction to viruses:	History, characteristics, replication
Virus particles:	Structure
Virus replication:	Genome replication strategies
Consequences of virus infection:	Virus - host cell interactions
Viruses and the immune system:	Pathogenicity, virulence, disease, host defenses and vaccines
Viruses with +ve sense RNA genomes:	Polio, TMV, MS2, Rubella virus, coronaviruses
Viruses with -ve ssRNA genomes:	Rabies virus, flu virus
Viruses with dsRNA genomes:	Reoviruses, rotavirus
Retroviruses:	Oncogenes, HIV and AIDS
Viruses with small DNA genomes:	Parvoviruses, papillomaviruses
Viruses with large DNA genomes:	Adenoviruses, poxviruses, herpesviruses

The classroom periods are 1.5 hour in duration. To allow for interactive learning, it is expected that discussion of lecture material will ensue in each session. This will be encouraged and the lectures constructed in a way that facilitates open dialog. iClickers will be used.

Students will be required to research one topic and prepare a short oral or on-line presentation.

Although brief lecture notes will be provided, attendance of lectures is expected.

GRADING SCHEME

Techniques to be used in the assessment of students' performance in the course:

Marking of MCQs, short or long answer exam questions by the instructor for the relevant material and assignment of a numerical mark to each question on the exam, grading of oral or on-line presentation and in-class iClicker quizzes/participation.

Midterm exam:	To be arranged 1 st week of class	35 %
Final Exam:	All the material covered in the course	50 %
In class/on-line p	15 %	

Conversion of marks to final letter grades:

Revised UVic Grading Scheme (effective May 1, 2012)

Grades	Grade Point	Percentage	Description
	Value		
A+ A A-	9 8 7	90 – 100 85 – 89 80 – 84	Exceptional , outstanding and excellent performance. Normally achieved by a minority of students. These grades indicate a student who is self-initiating, exceeds expectation and has an insightful
			grasp of the subject matter.
B+ B B-	6 5 4	77 – 79 73 – 76 70 – 72	Very good, good and solid performance. Normally achieved by the largest number of students. These grades indicate a good grasp of the subject matter or excellent grasp in one area balanced with satisfactory grasp in the other area.
C+ C	3 2	65 – 69 60 – 64	Satisfactory , or minimally satisfactory . These grades indicate a satisfactory performance and knowledge of the subject matter.
D	1	50 – 59	Marginal Performance. A student receiving this grade demonstrated a superficial grasp of the subject matter.
F	0	0-49	Unsatisfactory performance. Wrote final examination and completed course requirements; no supplemental.
Ν	0	0-49	Did not write examination or complete course requirements by the end of term or session; no supplemental. Failure to complete one or more components of student evaluation will result in a grade of "N" regardless of the cumulative percentage on other elements of the course. An N is a failing grade, and it factors into a student's GPA as O. The maximum percentage that can accompany an N on a student's transcript is 49

DEPARTMENT INFORMATION AND POLICIES

- 1. The Department of Biochemistry and Microbiology upholds and enforces the University's policies on plagiarism and cheating. These policies are described in the current University Calendar. All students are advised to read this section.
- 2. Cell phones, computers, and other electronic devices must be turned off at all times unless being used for a purpose relevant to the class. Students having a cell phone, tablet, or computer on their person during an exam will be assumed to have it for the purpose of cheating.
- 3. Any recordings of lectures may only be performed with written permission of the instructor, and are for personal use only. The instructor retains copyright to such recordings and all lecture materials provided for the class (electronic and otherwise); these materials must not be shared or reposted on the Internet.
- 4. Students are expected to be present for the midterm and final exams. Instructors may grant deferrals for <u>midterm</u> examinations for illness, accident, or family affliction, and students must provide appropriate documentation 48 hours after the midterm exam. The Department of Biochemistry and Microbiology considers it a breach of academic integrity for a student taking a deferred examination to discuss the exam with classmates. Similarly, students who reveal the contents of an examination to students taking a deferred examination are considered to be in violation of the University of Victoria policy on academic integrity (see current University Calendar). Deferral of a <u>final</u> exam must be requested with an Academic Concession form and submitted directly to Undergraduate Records. Deferred final exams for fall term courses will be arranged by the instructor. Deferred final exams for spring term courses will be arranged through Undergraduate Records and must be written before the end of the summer term as stipulated in the University Calendar.
- 5. Scan sheets for multiple choice exams (bubble sheets) will not be made available for review. Therefore, in addition to filling in answers on the scan sheet, students should also circle their answers in ink on their exam.
- 6. Professors may refuse to review/remark exams not written in ink. In addition, requests for review/remark of a midterm exam must be made within one week of the exam being returned. Students are expected to promptly pick up midterm exams after marking has been completed, either in class or from the instructor.
- 7. Examination papers that have pages removed, or are mutilated will not be marked.

<u>N grades</u>

Students who have completed the following elements will be considered to have completed the course and will be assigned a final grade:

- evaluation component Midterm exam
- evaluation component Final exam
- evaluation component Clicker participation in >50% of lectures

Failure to complete one or more of these elements will result in a grade of "N" regardless of the cumulative percentage on other elements of the course. An N is a failing grade,

and it factors into a student's GPA as O. The maximum percentage that can accompany an N on a student's transcript is 49