# MICROBIOLOGY 402 - VIROLOGY COURSE OUTLINE - Spring 2015 CRN 22172

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**Office Hours:** Open (appointments as required)

**Textbook:** Not required: see CourseSpaces for suggestions

iClickers Required: available at bookstore

Web site See: coursespaces.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.

## **Course Experience Survey (CES)**

I value your feedback on this course. Towards the end of term, as in all other courses at UVic, you will have the opportunity to complete an anonymous survey regarding your learning experience (CES). The survey is vital to providing feedback to me regarding the course and my teaching, as well as to help the department improve the overall program for students in the future. The survey is accessed via MyPage and can be done on your laptop, tablet, or mobile device. I will remind you and provide you with more detailed information nearer the time but please be thinking about this important activity during the course.

#### **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.

## **Evaluation of exams, presentation, class participation and weighting:**

Midterm exam:	To be arranged 1 <sup>st</sup> week of class	25 %
Final Exam:	All the material covered in the course	55 %
In class/on-line p	20 %	

## Grading Scheme

$A^{+}$	90 -100	B⁺	77 - 79	C⁺	65 - 69	<b>F</b> < 5	50
Α	85 - 89	В	73 - 76	С	60 - 64	N ** < !	50
Δ-	80 - 84	B-	70 - 72	D	50 - 59		

#### \*\* N grades

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

- at least one midterm
- the final exam
- the student project and at least 50% of the class assignments.

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 0. 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 academic integrity. 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).