

MICROBIOLOGY 402 - VIROLOGY
COURSE OUTLINE – Spring 2014 CRN 22174

Instructor: Dr. Chris Upton; **Office:** Petch 213; **Phone:** 721-6507

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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.

Evaluation of exams, presentation, class participation and weighting:

Midterm exam: To be arranged 1st week of class **35 %**

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

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