

**MICROBIOLOGY 402 - VIROLOGY**  
**COURSE OUTLINE – Spring 2019 CRN 22201**

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

**Textbook:** See CourseSpaces for suggestions

**iClickers** **Required:** available at bookstore **Or use iClicker Reef on Phone/tablet (\$15)**

**Web site** **See:** [coursespaces.uvic.ca](http://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 are required.*

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 1 <sup>st</sup> week of class	25 %
Final Exam:	All the material covered in the course	55 %
Assignments		10 %
Presentations		10 %

### UVic Grading Scheme

<b>A<sup>+</sup></b>	90 -100	<b>B<sup>+</sup></b>	77 - 79	<b>C<sup>+</sup></b>	65 - 69	<b>F</b>	< 50
<b>A</b>	85 - 89	<b>B</b>	73 - 76	<b>C</b>	60 - 64	<b>N **</b>	< 50
<b>A<sup>-</sup></b>	80 - 84	<b>B<sup>-</sup></b>	70 - 72	<b>D</b>	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:

- *midterm, final exam and presentation/project*

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. Course materials, such as notes, problem sheets, quizzes, examinations, example sheets, or review sheets, may not be redistributed without the explicit written permission of the instructor.

5. Students are expected to be present for the midterm and final exams. Instructors may grant deferrals for midterm 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 final 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.
6. Multiple choice scan sheets for machine scoring (bubble sheets) are considered the authentic exam answer paper and will be retained by the department for 1 year.
7. Professors may refuse to review/remark exams not written in indelible 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.
8. Examination papers that have pages removed, or are mutilated will not be marked.
9. The instructor reserves the right to use plagiarism detection software or other platforms to assess the integrity of student work.”

***Additional statements for your course outline (cut and paste where you see fit).***

### ***Centre for Accessible Learning***

*Students with diverse learning styles and needs are welcome in this course. In particular, if you have a disability/health consideration that may require accommodations, approach the Centre for Accessible Learning (CAL) as soon as possible in order to assess your specific needs.*

<https://www.uvic.ca/services/cal/index.php>

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

*We value your feedback on this course. Towards the end of term you will have the opportunity to complete a confidential course experience survey (CES) regarding your learning experience. 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. When it is time for you to complete the survey, you will receive an email inviting you to do so. If you do not receive an email invitation, you can go directly to your [CES dashboard](#). You will need to use your UVic NetLink ID to access the survey, which can be done on your laptop, tablet or mobile device. I will remind you nearer the time but please be thinking about this important activity*