



Oregon State University

Ecampus

Course Name: Human Virology

Course Number: BHS 340

Credits: 4 Credits

Course Description

Properties of viruses, their biology, pathogenesis and concern to society. Emphasis on viruses causing human disease. **PREREQS:** 12 credits of university biology

Communication

Please post all course-related questions in the General Discussion Forum so that the whole class may benefit from our conversation. Please email your instructor for matters of a personal nature. The instructor will reply to course-related questions and email within 24 hours, and will strive to return your assignments and grades for course activities to you within five days of the due date.

Course Credits

This course combines approximately 90 hours of instruction, online activities, and assignments for 4 credits.

Technical Assistance

If you experience any errors or problems while in your online course, contact 24-7 Canvas Support via chat, phone, or e-mail through the Help link within Canvas. If you experience computer difficulties, need help downloading a browser or plug-in, or need assistance logging into a course, contact the OSU Help Desk for assistance. You can call (541) 737-3474, email osuhelpdesk@oregonstate.edu or visit the [OSU Computer Helpdesk](#) online.

Learning Resources

Textbook: Essential Human Virology, by Jennifer Louten, Academic Press, 2016, ISBN: 978-0-12-800947-5

Note to prospective students: Please check with the OSU Bookstore for up-to-date information for the term you enroll ([OSU Bookstore Website](#) or 800-595-0357). If you purchase course materials from other sources, be very careful to obtain the correct ISBN.

Canvas

This course will be delivered via Canvas, where you will interact with your classmates and with your instructor. Within the course Canvas site, you will access the learning materials, such as the syllabus, class discussions, assignments, projects, and quizzes. To preview how an online course works, visit the [Ecampus Course Demo](#). For technical assistance, please visit [Ecampus Technical Help](#).

Measurable Student Learning Outcomes

At the completion of the course, you should be able to:

1. discuss the properties of viruses using the specialized language relevant to virology;
2. name key pathogenic viruses and the diseases they cause;
3. explain the basic design, infection, replication strategy and disease causality of viruses;
4. discuss the roles of viruses in the maintenance and evolution of ecosystems
5. be able to communicate and explain in writing key aspects of virology;
6. discuss currently exciting topics and issues in the field of virology.

Bacc Core / Slash Course / WIC

N/A

Evaluation of Student Performance

- Online Discussions – 100 points
- Quizzes – 200 points
- Individual exercises – 200 points
- Group exercises – 100 points
- Crosswords – P/NP, 10 points deducted for each not completed
- Midterm Exam – 200 points
- Final Exam – 200 points
- **Total – 1000 points**

Grading Scale

A 93-100%; A- 90-92%; B+ 87-89%; B 83-86%; B- 80-82%; C+ 76-79%; C 70-75%; C- 65-69%; D+ 60-64%; D 55-59%; D- 50-54%; F Less than 50%

Course Content

Week	Topic	Reading Assignments	Learning Activities	Due Dates
1	Virus history, structure and classification; cellular biology review	Chapters 1, 2, 3 (pp 1-35)	Exercises 1&2 Quiz 1 Crossword 1	all due Friday 5pm
2	Molecular biology review; virus replication strategies	Chapters 3, 4 (pp 36-57)	Exercises 3&4 Quiz 2 Crossword 2	all due Friday 5pm
3	Virus replication strategies (cont.); virus transmission	Chapters 4, 5 (pp 58-82)	Exercise 5&6 Quiz 3 Crossword 3 Online Discussion 1	all due Friday 5pm
4	Viral epidemiology; immune response to viruses	Chapters 5, 6 (pp 83-109)	Group exercise 1 Quiz 4 Crossword 4	all due Friday 5pm
5	Viral detection & diagnosis; vaccines, antivirals and beneficial viruses	Chapters 7, 8 (pp 111-153)	Quiz 5 Crossword 5 Online Discussion 2 MIDTERM TEST	all due Friday 5pm

Week	Topic	Reading Assignments	Learning Activities	Due Dates
6	Viruses & cancer; Influenza viruses	Chapters 9, 10 (pp 155-190)	Exercise 7&8 Quiz 6 Crossword 6	all due Friday 5pm
7	Human immunodeficiency virus & AIDS	Chapter 11 (pp 193-210)	Quiz 7 Crossword 7 Online Discussion 3	all due Friday 5pm
8	Hepatitis viruses; Herpesviruses	Chapters 12, 13 (pp 213-255)	Exercise 9&10 Quiz 8 Crossword 8	all due Friday 5pm
9	Poliovirus; Poxviruses	Chapters 14, 15 (pp 257-290)	Group exercise 3 Quiz 9 Crossword 9	all due Friday 5pm
10	Emerging & reemerging viral diseases	Chapter 16 (pp 291-309)	Quiz 10 Online Discussion 4 Crossword 10	all due Friday 5pm
Finals			FINAL EXAM	

Course Policies

Discussion Participation

Students are expected to participate in all graded discussions. While there is great flexibility in online courses, this is not a self-paced course. You will need to participate in our discussions on at least two different days each week, with your first post due no later than Wednesday evening, and your second and third posts due by the end of each week.

Proctored Exams

This course requires that you take exams under the supervision of an approved proctor. Proctoring guidelines and registration for proctored exams are available online through the Ecampus [testing and proctoring website](#). It is important to submit your proctoring request as early as possible to avoid delays.

Makeup Exams

Makeup exams will be given only for missed exams excused in advance by the instructor. Excused absences will not be given for airline reservations, routine illness (colds, flu, stomach aches), or other common ailments. Excused absences will generally not be given after the absence has occurred, except under very unusual circumstances.

Exam Time Limits

Exams in this class are timed; if you exceed the time limit on an exam, you will be assessed a penalty of 10% for every five minute interval beyond the time limit.

Incompletes

Incomplete (I) grades will be granted only in emergency cases (usually only for a death in the family, major illness or injury, or birth of your child), and if the student has turned in 80% of the points possible (in other words, usually everything but the final test). If you are having any difficulty that might prevent you completing the coursework, please don't wait until the end of the term; let the instructor know right away.

Guidelines for a Productive and Effective Online Classroom

Students are expected to conduct themselves in the course (e.g., on discussion boards, email) in compliance with the university's regulations regarding civility.

Civility is an essential ingredient for academic discourse. All communications for this course should be conducted constructively, civilly, and respectfully. Differences in beliefs, opinions, and approaches are to be expected. In all you say and do for this course, be professional. Please bring any communications you believe to be in violation of this class policy to the attention of your instructor.

Active interaction with peers and your instructor is essential to success in this online course, paying particular attention to the following:

- Unless indicated otherwise, please complete the readings and view other instructional materials for each week before participating in the discussion board.
- Read your posts carefully before submitting them.
- Be respectful of others and their opinions, valuing diversity in backgrounds, abilities, and experiences.
- Challenging the ideas held by others is an integral aspect of critical thinking and the academic process. Please word your responses carefully, and recognize that others are expected to challenge your ideas. A positive atmosphere of healthy debate is encouraged.

Statement Regarding Students with Disabilities

Accommodations for students with disabilities are determined and approved by Disability Access Services (DAS). If you, as a student, believe you are eligible for accommodations but have not obtained approval please contact DAS immediately at 541-737-4098 or at <http://ds.oregonstate.edu>. DAS notifies students and faculty members of approved academic accommodations and coordinates implementation of those accommodations. While not required, students and faculty members are encouraged to discuss details of the implementation of individual accommodations.

Accessibility of Course Materials

All materials used in this course are accessible. If you require accommodations please contact [Disability Access Services \(DAS\)](#).

Additionally, Canvas, the learning management system through which this course is offered, provides a [vendor statement](#) certifying how the platform is accessible to students with disabilities.

Expectations for Student Conduct in this Online Classroom

Students are expected to conduct themselves in the course (e.g., on discussion boards, email postings) in compliance with the university's regulations regarding civility. Student conduct is governed by the university's policies, as explained in the [Student Conduct Code](#).

Academic Integrity

Students are expected to comply with all regulations pertaining to academic honesty. For further information, visit [Student Conduct and Community Standards](#), or contact the office of Student Conduct and Mediation at 541-737-3656.

OAR 576-015-0020 (2) Academic or Scholarly Dishonesty:

- a) Academic or Scholarly Dishonesty is defined as an act of deception in which a Student seeks to claim credit for the work or effort of another person, or uses unauthorized materials or fabricated information in any academic work or research, either through the Student's own efforts or the efforts of another.

- b) It includes:
- i) **CHEATING** - use or attempted use of unauthorized materials, information or study aids, or an act of deceit by which a Student attempts to misrepresent mastery of academic effort or information. This includes but is not limited to unauthorized copying or collaboration on a test or assignment, using prohibited materials and texts, any misuse of an electronic device, or using any deceptive means to gain academic credit.
 - ii) **FABRICATION** - falsification or invention of any information including but not limited to falsifying research, inventing or exaggerating data, or listing incorrect or fictitious references.
 - iii) **ASSISTING** - helping another commit an act of academic dishonesty. This includes but is not limited to paying or bribing someone to acquire a test or assignment, changing someone's grades or academic records, taking a test/doing an assignment for someone else by any means, including misuse of an electronic device. It is a violation of Oregon state law to create and offer to sell part or all of an educational assignment to another person (ORS 165.114).
 - iv) **TAMPERING** - altering or interfering with evaluation instruments or documents.
 - v) **PLAGIARISM** - representing the words or ideas of another person or presenting someone else's words, ideas, artistry or data as one's own, or using one's own previously submitted work. Plagiarism includes but is not limited to copying another person's work (including unpublished material) without appropriate referencing, presenting someone else's opinions and theories as one's own, or working jointly on a project and then submitting it as one's own.
- c) Academic Dishonesty cases are handled initially by the academic units, following the process outlined in the University's Academic Dishonesty Report Form, and will also be referred to SCCS for action under these rules.

OSU Student Evaluation of Teaching

Course evaluation results are extremely important and are used to help me improve this course and the learning experience of future students. Results from the 19 multiple choice questions are tabulated anonymously and go directly to instructors and department heads. Student comments on the open-ended questions are compiled and confidentially forwarded to each instructor, per OSU procedures. The online Student Evaluation of Teaching form will be available toward the end of each term, and you will be sent instructions via ONID by the Office of Academic Programs, Assessment, and Accreditation. You will log in to "Student Online Services" to respond to the online questionnaire. The results on the form are anonymous and are not tabulated until after grades are posted.