Course Description
An in-depth discussion of the principles of modern virology. Major topics of discussion will include: virus replication strategies, virus structure, virus infection and disease, and host resistance to disease.

Course Objectives
1. Understand how the virus is able to infect a host, including the steps involved in the infectious cycle including attachment, entry, replication, and exit from the cell.
2. Be able to describe the structure of a virus and the differences that exist between viruses.
3. Know different barriers to infection and the mechanisms viruses employ to get through these barriers.
4. Have a general understanding of how viruses interact with the immune system, mechanisms of pathogenesis and the basis of vaccines.

Optional Textbook
Vol I: Molecular Biology
Vol II: Pathogenesis and Control
Flint J, Racaniello V, Rall G, Skalka AM,
ASM Press, 2015

Communication
The best way to reach me is through email. I will respond to email fairly quickly and if you need to talk to me please email me and we can set up a time to talk further. You should frequently check your UNK email and Blackboard for course assignments or announcements. Lectures will be posted on Blackboard but you will still be required to watch lectures as additional information provided during lectures will be pertinent.

Grading
<table>
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<th>Component</th>
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<tr>
<td>Discussion (10pt/wk)</td>
<td>Drop 1</td>
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<tr>
<td>2 Exams (30pts each)</td>
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<tr>
<td>Case Studies (20pts each)</td>
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<tr>
<td>Presentations (30pts)</td>
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Grades will be assigned using the Department of Biology standard grading scale: A (93-100%), A- (90-92%), B+ (88-89%), B (83-87%), B- (80-82%), C+ (78-79%), C (73-77%), C- (70-72%), D+ (68-69%), D (63-67%), D- (60-62%), and F (below 60%).
Discussion
I will post papers on Blackboard on Tuesdays and you will have until the following Monday to participate. This is also a good place for students to post questions if they want to discuss the lectures in further detail. To receive full credit, students must have 1 significant contribution weekly. Your responses must contribute something new to the discussion and not simply agree or disagree to the previous response. References will be required to support your statement. Please be considerate of your classmates’ responses, abusive comments or attacking other student’s comments will not receive credit as comments should be constructive even if you strongly disagree with another student. Discussions will be posted and due as follows:

Discussion 1: Jan 10 – Jan 16
Discussion 2: Jan 17 – Jan 23
Discussion 3: Jan 24 – Jan 30
Discussion 4: Feb 7 – Feb 13
Discussion 5: Feb 14 – Feb 20
Discussion 6: Feb 21 – Feb 27
Discussion 7: Feb 28 – Mar 6
Discussion 8: Mar 28 – Apr 3
Discussion 9: Apr 4 – Apr 10
Discussion 10: Apr 11 – Apr 17

Exams
Exams will be take home consisting of short answers and worth 30 pts each. Students will be given one week to complete the exam, however there will still be lectures and other assignments at this time so please do not procrastinate. Exam dates are as follows:

Exam 1: Mar 13 – Mar 20
Exam 2: April 24 – May 1

Case Studies
For the case study assignments, students will work in groups, and each group is assigned the same case study. Everyone in the group needs to participate and students that do not contribute to their group will not receive credit for that assignment. The same guidelines for discussion also apply to participation with the case studies.

Case Study 1: Jan 31 – Feb 6
Case Study 2: Mar 7 – Mar 13
Case Study 3: Apr 18 – Apr 24

Disease Presentation
We will not have the time to cover individual viruses in detail in this class, to cover individual viruses of interest, students will be assigned a virus the week of Jan 23rd. Students will create a PowerPoint presentation. PowerPoint presentations will be due Feb 13th at 8am CST. Students will be responsible for reviewing two student presentations during the next week. I will post the presentations over six weeks (3 mid-semester, 3 end of semester). Same guidelines apply as stated above in the discussion section. Presentations should be concise as students are
responsible for viewing all presentations and filling out evaluations. Approximately 10 slides
should suffice depending on the virus. Presentations significantly shorter or longer will not
receive full credit (aim for 5-15 slides, avoid wordy slides and write in the notes section what you
would say on that slide. Do not plagiarize!)

Academic Dishonesty
Plagiarism will not be tolerated, please refer to the student handbook or ask me for more
clarification on the subject if unsure what constitutes plagiarism. It is expected students work
independently on assignments unless otherwise stated by the instructor. Group work where not
specified will be considered cheating and students will receive a zero for that assignment.
Multiple offenses will result in the student(s) receiving a failing grade for the course and possible
removal from the program.

Withdraw (W) and Incomplete (I)
In unusual circumstances beyond the student’s control, an incomplete (I) may be issued. The (I)
is issued as a final grade with the student having 12 months to complete the necessary work. If
the coursework is not completed in this time the (I) will be converted to a failing grade (F) on the
student’s transcript. Students may withdraw from the course before 9 weeks have been
completed and a (W) will appear on the transcript. Students are responsible for filling out the
necessary paperwork to complete this process. Instructors are not able to withdraw students. If
the student drops the class, the (W) will not contribute to the student’s overall GPA.

Student Accommodations
Students with Disabilities or Those Who are Pregnant  Students with disabilities or those
who are pregnant are encouraged to contact me for a confidential discussion of their individual
needs for academic accommodation. It is the policy of the University of Nebraska at Kearney to
provide flexible and individualized reasonable accommodation to students with documented
disabilities or those who are pregnant. To receive accommodation services for a disability,
students must be registered with UNK Disabilities Services Coordinator, David Brandt, in the
Academic Success Office, 163 Memorial Student Affairs Building, 308-865-8214 or by email
brandtdl@unk.edu. For those needing accommodation due to pregnancy, you need to visit with
Student Health. The following link provides information for students and faculty regarding
college-and-graduate-students

Attached is the link to the above statement for your convenience.
http://unkcms.unk.edu/offices/disability_services/

Reporting Student Sexual Harassment, Sexual Violence or Sexual Assault

Reporting allegations of rape, domestic violence, dating violence, sexual assault, sexual
harassment, and stalking enables the University to promptly provide support to the impacted
student(s), and to take appropriate action to prevent a recurrence of such sexual misconduct
and protect the campus community. Confidentiality will be respected to the greatest degree
possible. Any student who believes she or he may be the victim of sexual misconduct is
encouraged to report to one or more of the following resources:
Local Domestic Violence, Sexual Assault Advocacy Agency 308-237-2599

Campus Police (or Security) 308-627-4811

Title IX Coordinator 308-865-8655

Retaliation against the student making the report, whether by students or University employees, will not be tolerated.

If you have questions regarding the information in this email please contact Mary Chinnock Petroski, Human Resources Director (petroskimj@unk.edu or phone 8655).

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