Announcements, assignments, tests, and quizzes: All information for this class will be available on blackboard (http://bb.unk.edu). You should check it regularly. E-mail: All students must use their UNK email account so that I can reach them. All emails to Dr. Ericson should be sent to his email account and not posted on blackboard.

Catalog Description
Prerequisites: A course in genetics and a course in cell biology or biochemistry is strongly recommended. An in-depth discussion of the principles of modern virology. Major topics of discussion will include: (1) virus replication strategies, (2) virus structure, (3) virus infection and disease, (4) and host resistance to disease. Spring semesters only.


Course objectives:
1. Understand the replication strategies of the major virus families and how they differ from each other.
2. Understand the organization of virus genomes and the various strategies for virus gene expression.
3. Understand the basic aspects of virus structure and assembly.
4. Understand the role of viruses in human disease.
5. Understand the role of viruses in medicine and society.
6. Understand virus control technologies.
7. Develop an ability to critically analyze the current literature on virology.
Students will achieve these objectives through lectures, online quizzes/tests, and discussion board participation.

Expectations: Grades are based on quizzes and exams. You are expected to participate on the discussion board, but this is not graded. The discussion board is designed for you to ask questions concerning the lecture material or make a post of a current event relating to virology. Do not post exam questions or quiz questions here. Use your private email account for this purpose.

My role in the course: Finally, a word about my role. Distance classes can be overwhelming for an instructor who tries to interact constantly with each student's postings. I will log in and read what you all post shortly after the posting. I will not, however, respond to each of your
postings. Frequently I will find comments or observations that you make of such interest that I will send an email to all of you commenting about these. Also, make use of the E-campus links under Student Resources on the UNK website. You will find many of these of value to you.

Grading will be based on departmental policy as follows: A+ (97-100%), A (96-94%), A- (93-90%), B+ (88-89%), B (83-87%), B- (80-82%), C+ (78-79%), C (73-77%), C- (72-70%), D+ (68-69%), D (63-67%), D- (60-63%), F (below 60%).

Course Points:
Exams (four) @ 100 points 400 points
14 Quizzes @ 10 points (minus lowest 4 quizzes) 100 points
Total Points 500 points

Exams: Exams may be composed of multiple choice, true/false, application problems, and/or short essays. I believe that virology and science exams in general should be an application of the material learned and not simply rote memorization. The exams are not comprehensive, in that, the questions asked will specifically address material covered since the last exam or in the case of the first exam, material since the first day of class. The material on the test will include lecture material only. The multiple choice/true or false portion of the exam will be taken as a timed online portion. The amount of time allotted will be announced at the time of the test. If you run out of time while taking the test, you will not be given extra time. If you have a problem while taking your test, send me an email and I will deal with it as soon as possible. The computer displays a message to me that tells me what kind of problem you had, whether you took too much time or there was a computer problem. I will be available M-F from 9:00 am to 4:00 pm CST, but not constantly as I do have other teaching and research responsibilities. Everyone is expected to take all of the exams. **You must take all four exams to receive full credit. If you miss an exam, you will automatically fail and receive a letter grade of an “F”**.

The dates for the exams are listed on the schedule. The exams will be made available at 8:00 am CST on the day of the week listed and taken off at 11:55 pm CST on the day of the week listed. As an example, if the first test is put on blackboard at 8:00 am CST on Sunday, September 27th, you would have until 11:55 pm CST Saturday, October 3rd to take it. **THE DEADLINE IS FINAL! THE EXAM WILL BE REMOVED AT 11:55 pm CST ON THE DUE DATE. MAKEUP EXAMS WILL BE GIVEN ONLY UNDER EXTREME OR EXTENUATING CIRCUMSTANCES, WHICH CAN BE DOCUMENTED!** In any and all cases, the final validity and acceptability of any excuse for absence are at my sole discretion.

Quizzes: Throughout the semester, you will be given 14 timed quizzes worth 10 points each. The quizzes will cover the book/lecture material. For all quizzes, you will be allotted 10 minutes to answer 10 multiple choice or true/false questions. The questions will be given to you one at a time. You will have only one chance to answer the question and will not be allowed to go back and change answers. Therefore, make sure to answer carefully. If we have done calculations in the lecture for a certain week, make sure to have a calculator with you at the time of the quiz. For quizzes with calculations, you will be allotted extra time. If you run out of time while taking the quiz, you will not be given extra time. If you have a problem while taking your quiz, send me an email and I will deal with it as soon as possible. The computer displays a message that
tells us what kind of problem you had, whether you took too much time or there was a computer problem I will be available M-F from 9:00 am to 4:00 pm CST, but not constantly as I do have other teaching and research responsibilities. The dates for the quizzes are listed on the schedule and will be made available at 8:00 am CST on the three days prior to the due date. You have until 11:55 pm CST on the due date to take the quiz. **THE DEADLINE IS FINAL! THE QUIZ WILL BE REMOVED AT 11:55 pm CST ON THE DUE DATE.** The purpose of these quizzes is to make sure that you are keeping up with the course material.

**General Discussion Board:** This discussion board will be for introductions, general questions, and questions over lecture. If you have questions about lecture material, please post it here. In my experience, if you have a question about the material, so does everyone else! **Do not post questions about the quizzes or tests here.** If you have a question about a quiz or test you have taken, email me directly. If it is something that should be shared with the rest of the class, I will post it. **Even though the Discussion Board is not graded, you are still responsible for any and all materials that are posted there. Check it regularly.** Also, if you do not participate on the Discussion Board, do not ask me to alter your grade at the end of the semester. If you have an 89.9% as a final percentage and have not participated on the Discussion Board, you get a B+, not an A-. The Discussion Board is also a great place to post current events that involve viruses. Please bring items such as these to the attention of the class.

**Bonus Points or Extra Credit:** Due to confusion about this policy, no extra credit or bonus points will be made available. The only consideration of bonus points will be based on Discussion Board participation (see above). The value of this participation is at the sole discretion and judgment of the instructor.

**Students with Disabilities or Students Who are Pregnant**

It is the policy of the University of Nebraska at Kearney to provide flexible, individualized, and reasonable accommodations to students with documented disabilities or students who are pregnant. To receive accommodation services for a disability, students must be registered with UNK Disabilities Services. Contact David Brandt, in the Academic Success Office, 163 Memorial Student Affairs Building, 308-865-8214 or by email brandtdl@unk.edu to register. For students needing accommodation due to pregnancy, you need to contact Student Health. (The following link provides information for students and faculty regarding pregnancy rights. [http://www.nwlc.org/resource/pregnant-and-parenting-students-rights-faqs-college-and-graduate-students](http://www.nwlc.org/resource/pregnant-and-parenting-students-rights-faqs-college-and-graduate-students)) Students with disabilities or students who are pregnant need to provide the proper documentation from Disability Services or Student Health to their faculty members in order to receive academic accommodations. Anyone who feels they were not afforded these rights, should contact the campus Title IX/ADA Officer at 308-865-8655.

Attached is the link to the above statement for your convenience. [http://www.unk.edu/offices/disabilityservices.aspx?id=13673](http://www.unk.edu/offices/disabilityservices.aspx?id=13673)
If you have an accommodation plan please see me as soon as possible, so we can make any arrangements necessary for your learning. No accommodations can be provided until a Reasonable Accommodation Plan is in place. Please remember, plans are not retroactive and cannot be used for assignments prior to the date of my signature.

**Policy on incomplete:** To be considered for an incomplete in Biology 830P:

1. You must submit the reasons you cannot complete the scheduled work. This must include a copy of your class schedule and description of your responsibilities outside the classroom. This should be done in writing and include confirmation from your employer when appropriate.

2. You must specify the assignments you have missed and a schedule of plans to complete them.

3. You must submit a copy of the above information to the Chair of the Department of Biology and the Dean of Natural and Social Sciences.

4. Upon completion of items 1-3, your request for an incomplete will be considered. I expect all students to progress through the requirements for Biology 830P in a timely fashion. Unless your circumstance is quite remarkable, do not consider an incomplete.

**Plagiarism and cheating:** Neither will be tolerated! Anyone caught plagiarizing any exercise or cheating on any exercise will receive a 0 for that exercise; subsequent violations will result in referral to the Vice Chancellor for Academic Affairs for dismissal from the university.

**Course Schedule—Completion date follows each chapter.** You need to have read the chapters and try to complete the lectures listed by these completion dates in order to be prepared for the weekly quiz.

Lecture #1 Introduction to Viruses 1/16
Lecture #2 Eukaryotic Molecular Biology and Host Cell Constraints 1/22
Lecture #3 Virus Architecture and Nomenclature 1/28
Lecture #4 Virus Replication Cycles 2/3
Lecture #5 Laboratory Diagnosis and Viral Diseases 2/9
Exam I 100 Points 2/16
Lecture #6 Mechanism of Viral Entry and Spread of Infection in the Body 2/15
Lecture #7 Host Resistance to Viral Infections 2/21
Lecture #8 Epidemiology 2/27
Lecture #9 Viruses and Cancer 3/5
Lecture #10 Poliovirus and Other Enteroviruses 3/11
Exam II 100 Points 3/15
Lecture #11 Influenza Viruses 3/17
Lecture #12 Rabies 3/22
Lecture #13 Poxviruses 3/27
Lecture #14 Herpesviruses 4/3
Exam III 100 Points 4/12
Lecture #15  Human Immunodeficiency Virus (HIV)  4/15
Lecture #16  Hepatitis Viruses  4/21
Lecture #17  New Viruses and Viruses That are Reemerging  4/25
Lecture #18  What about Prions and Viroids?  4/30
Final Exam 100 Points 5/7

Quiz and Exam Schedule (see above for instructions and policies). The dates given for the quizzes (Q) are the completion dates. You must, for example, have Q1 completed by Monday, January 20th at 11:55 p.m., CDT.

Q1. January 18th
Q2. January 25th
Q3. February 1st
Q4. February 8th
Exam I  February 9th-16th

Q5. February 18th
Q6. February 25nd
Q7. March 4th
Q8. March 11th
Exam II  March 9th-15th

Q9. March 20th
Q10. March 27th
Q11. April 3rd
Exam III  April 6th-12th

Q12. April 19th
Q13. April 26th
Q14. May 3rd
Exam IV  May 1st-7th