Infectious Diseases: Biol. 840
Course Syllabus – Fall 2018

Instructor: Dr. Austin Nuxoll
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Office hours: For off-campus students, please arrange office hour appointments by email

Course Description
This course is an introduction to human host pathogen interactions and microbial pathogenesis. Topics will focus on mechanisms of infectious disease transmission, the immune response to these infections, conventional and alternative antimicrobial treatment, and hot topics in current scientific literature.

Course Objectives: Following completion of this course, students should be able to:
1. Understand the complexity and diversity of microbial virulence, specifically understanding different strategies pathogens employ for host manifestation of disease
2. Have a general understanding of the host response to pathogens and different ways pathogens evade the immune response
3. Identify methods of treatment and prevention of infection

Required Materials
Text:
Sherris Medical Microbiology
Kenneth J. Ryan and C. George Ray
Seventh edition
McGraw-Hill, New York, NY

Computer and Software:
Access to a computer with internet access, Microsoft Word and PowerPoint. Software can be purchased through UNK bookstore at a discount. We will have video presentations that require the use of a webcam. These can be found through Walmart or Amazon starting around $10.

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 Canvas for course assignments or announcements. Powerpoints will be posted on Canvas but you will still be required to watch lectures as additional information provided during lectures will be pertinent.

Grading
Discussion (10pts each) 130
3 Exams (30pts each) 90
Quizzes (10pts each) 40
Case Studies (10pts/wk) 70
Presentations (10pts each) 90
Final Paper 30
Total 450

Grades will be assigned using the Department of Biology standard grading scale: follows: 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 questions on Canvas 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 significant contributions weekly on each discussion topic. Once we begin the student presentations (Week 5) you must have 5 meaningful comments on the presentations as well as one comment on each of the other topics posted. Your responses must contribute something new to the discussion and not simply restate what was mentioned in 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: posted Tuesday, August 21; closes Monday, August 27
Discussion 2: posted Tuesday, August 28; closes Monday, September 3
Discussion 3: posted Tuesday, September 4; closes Monday, September 10
Discussion 4: posted Tuesday, September 11; closes Monday, September 17
Discussion 5: posted Tuesday, September 18; closes Monday, September 24
Discussion 6: posted Tuesday, September 25; closes Monday, October 1
Discussion 7: posted Tuesday, October 2; closes Monday, October 8
Discussion 8: posted Tuesday, October 16; closes Monday, October 22
Discussion 9: posted Tuesday, October 23; closes Monday, October 29
Discussion 10: posted Tuesday, October 30; closes Monday, November 5
Discussion 11: posted Tuesday, November 13; closes Monday, November 19
Discussion 12: posted Tuesday, November 27; closes Monday, December 3
Discussion 13: posted Tuesday, December 4; closes Monday, December 10

Exams
Exams will consist of short answer questions in a take home format. Students will be given one week to complete the exam. These can be time-consuming depending on your expertise on the topic so please do not procrastinate. Exam dates are as follows:

Exam 1: available Tuesday, Sept 11; due Monday, Sept 17 at 11:59 p.m. CST.
Exam 2: available Tuesday, Oct 9; due Monday, Oct 15 at 11:59 p.m. CST.
Exam 3: available Tuesday November 6; due Monday, November 12 at 11:59 p.m. CST.

Quizzes
Each quiz will consist of short answer, multiple choice, and true/false questions. You will be presented one question at a time and once answered you will not be able to return to previous questions. Quizzes will be administered through canvas in an online timed format. Material for
the quizzes will directly come from the lectures and will cover two weeks of material. Quiz dates are as follows:

**Quiz 1:** available Tuesday, Aug 28; due Monday, Sept 3 at 11:59 p.m. CST.
**Quiz 2:** available Tuesday, Sept 4; due Monday, Sept 10 at 11:59 p.m. CST.
**Quiz 3:** available Tuesday, Sept 11; due Monday, Sept 17 at 11:59 p.m. CST.
**Quiz 4:** available Tuesday, Sept 18; due Monday, Sept 24 at 11:59 p.m. CST.

**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:** posted September 18; closed September 24
**Case Study 2:** posted September 25; closed October 1
**Case Study 3:** posted October 2; closed October 8
**Case Study 4:** posted October 16; closed October 22
**Case Study 5:** posted October 23; closed October 29
**Case Study 6:** posted October 30; closed November 5
**Case Study 7:** posted November 6; closed November 12

**Disease Presentation**
Students will be responsible for one bacterium, virus, and parasite/fungi. Pathogens will be assigned the week of August 27th. Students will create a PowerPoint presentation each week (approximately 5 minutes in length) and write a case study paper on one of their pathogens. Students will be responsible for reviewing five student presentations during each week. Final case study papers will be due **December 10th by 11:59 pm CST.**

**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**
It is the policy of the University of Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students with documented disabilities. 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 unkds@unk.edu

**Students Who are Pregnant**

It is the policy of the University of Nebraska at Kearney to provide flexible and individualized reasonable accommodation to students who are pregnant. To receive accommodation services due to pregnancy, students must contact Cindy Hayes in Student Health, 308-865-8218. 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)

**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)** 308-865-8911
**Title IX Coordinator** 308-865-8655

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

<table>
<thead>
<tr>
<th>Preparation for class</th>
<th>Dates</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1</td>
<td>August 20</td>
<td>Lecture 0: Syllabus</td>
</tr>
<tr>
<td>Chapter 5</td>
<td>August 22</td>
<td>Lecture 1: Introduction to ID</td>
</tr>
<tr>
<td></td>
<td>August 24</td>
<td>Lecture 2: Host-Parasite Interaction</td>
</tr>
<tr>
<td>Chapter 2</td>
<td>August 27</td>
<td>Lecture 3: Innate Immunity</td>
</tr>
<tr>
<td></td>
<td>August 29</td>
<td>Lecture 4: Adaptive Immunity</td>
</tr>
<tr>
<td></td>
<td>August 31</td>
<td>Lecture 5: Vaccination</td>
</tr>
<tr>
<td></td>
<td>September 3</td>
<td><strong>Labor Day Break</strong></td>
</tr>
<tr>
<td></td>
<td>September 5</td>
<td>Lecture 6: Antibiotics</td>
</tr>
<tr>
<td></td>
<td>September 7</td>
<td>Lecture 7: Antibiotic Resistance</td>
</tr>
<tr>
<td>Chapter 24</td>
<td>September 10</td>
<td><strong>Exam 1</strong></td>
</tr>
<tr>
<td></td>
<td>September 12</td>
<td>Lecture 8: <em>Staphylococcus</em></td>
</tr>
<tr>
<td></td>
<td>Week 5</td>
<td>Bacteria: Background/Epidemiology/Transmission/Reservoirs</td>
</tr>
<tr>
<td></td>
<td>Week 6</td>
<td>Bacteria: Pathogenesis/Immune Evasion</td>
</tr>
<tr>
<td></td>
<td>Week 7</td>
<td>Bacteria: Symptoms/Diagnosis/Treatment/Prevention</td>
</tr>
<tr>
<td></td>
<td>Week 8</td>
<td><strong>Exam 2</strong></td>
</tr>
<tr>
<td>Week</td>
<td>Focus Area</td>
<td></td>
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<td>------------------------------------------------</td>
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<tr>
<td>Week 9</td>
<td>Viruses: Background/Epidemiology/Transmission/Reservoirs</td>
<td></td>
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<tr>
<td>Week 10</td>
<td>Viruses: Pathogenesis/Invasion and Replication/Immune Evasion</td>
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<tr>
<td>Week 11</td>
<td>Viruses: Symptoms/Diagnosis/Treatment/Prevention</td>
<td></td>
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<tr>
<td>Week 12</td>
<td>Exam 3</td>
<td></td>
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<tr>
<td>Week 13</td>
<td>Fungi/Parasites: Background/Epidemiology/Transmission/Reservoirs</td>
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<tr>
<td>Week 14</td>
<td>Thanksgiving Break</td>
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<tr>
<td>Week 15</td>
<td>Fungi/Parasites: Pathogenesis/Immune Evasion</td>
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<tr>
<td>Week 16</td>
<td>Fungi/Parasites: Symptoms/Diagnosis/Treatment/Prevention</td>
<td></td>
</tr>
<tr>
<td>Finals Week</td>
<td>Final Paper Due</td>
<td></td>
</tr>
</tbody>
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