

"Bacteriology"

Biology 309 (5 cr.)
Location: Halsey 309

Monday, Wednesday, and Friday: 1:50 – 2:50 a.m.

Instructor: Dr. Greg Kleinheinz
Office: 159 Halsey Science Building
Research Lab 148 Halsey Science Building
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E-mail: kleinhei@uwosh.edu
Course web site: <http://bact.uwosh.edu/309/>
Required Text: "Microbiology" 6th ed. by Prescott et al.
Class Laboratory: 171 Halsey Science Center
Laboratory Instructor: Ms. Vicki Verbrick (Office Phone - 424-3397)

Purpose:

To introduce undergraduate students to bacteriological principals and applications. To provide a foundation for the future study of microbiology.

Requirements:

Each student group (2-3 students) will be responsible for giving a 15 (± 2 minutes) minute presentation on a topic dealing with Bacteriology. Each group must check/discuss their topic with the instructor by the 24th of February, 2006 or you will be subject to a reduced grade. The specifics of this project will be discussed during the first couple weeks of class. In addition, each group must prepare an abstract and "Study Guide" for the discussion. The abstract and Study Guide need not be long and complicated. They may include illustrations, diagrams, tables, etc.. They should simply supplement your oral presentation. It is expected that presenters will utilize visual aids during their oral presentation! A 3-4 page report on your topic and presentation will be due by 1:50 p.m. on **Monday, April 3, 2006**. Each report must follow a "standard" report format including (aside from the aforementioned abstract) an Introduction, Discussion, Conclusions, and References (at least 10 AND more than 75% must not be web references) section. References should be in ASM format (to be discussed in class). Please contact the instructor if you have any questions, at any point, throughout the term.

There is no attendance policy, BUT "extra credit" (EC) and quizzes may be unannounced. You must have an acceptable and prearranged excuse for missing class or you will not be able to make-up for missed quizzes or EC. You must attend ALL student presentations, or lose 5 pts for each day missed!

In general, class discussion will follow the textbook and the attached schedule of lectures. It should be noted that while the book will serve as a framework for discussion, there will be quite a bit of material presented in class that is not found in the text. You will be responsible for such material on exams and quizzes. Thus, if you miss lecture you should obtain notes from a classmate.

Cellular phones, pagers and alike are not permitted on in class. Should your personal electronic device make any sounds in class it will cost you 10 points off of your next exam or quiz. Should you require such a device for a personal reason please contact the instructor during the first week of class.

Course Grading:

The final *lecture* grades will be based upon total points and will use the following criteria:

- a) **Exams** - There will be three Exams. Each exam will be 100 pts. There is NO cumulative final!
- b) **Quizzes** - There will be 3-4 quizzes throughout the semester. Some will be given in class and some will/may be take home. (30-50 total points)
- c) **Presentation and Report** - This portion of your grade will be divided 50:50. Half for presentation and half for report (100 total points). Computer presentations are mandatory!
- d) **Extra Credit** – There will be numerous extra credit opportunities throughout the semester, but you must be in class to “cash in”.

NOTE: The lecture grade is 70% of your final Bacteriology grade.

The final *laboratory* grade will be based upon total points and will use the following criteria:

- a) **Practical Exam** - There will be one practical Exam (see lab schedule for exact date) which will be worth 100 points. The practical exam will be composed of a ‘hands-on’ lab exam. In addition, there may be periodic assignments given during the semester which will count towards the total points on the practical. In addition, you will lose 5 points on the practical exam for each lab session you miss without an acceptable excuse. Since there is a significant amount of group work, you will need to be an actively contributing member of your group. Assignments given throughout the semester may count as a portion your practical exam grade.
- b) **Reports** - There will be one large lab report. The “Bacterial Growth” Exercise will be worth 100 points. Specific details on this report, formatting, etc. will be provided in class and during lab sessions.
- c) **Lab Questions**- The questions at the end of each lab exercise (if any) will be due the following lab period (at the moment you walk into lab!). The instructor will explain more about these assignments during the first week of lab. Each set of questions is worth 5 points.

NOTE: The laboratory grade is 30% of your final Bacteriology grade.

Course Grades will be determined using the following scale (final grades may be “curved” depending on final class average using lab and lecture grades:

92.5 - 100% = A	72.5 - 79.4% = C
87.5 - 92.4% = AB	69.5 - 72.4% = CD
82.5 - 87.4% = B	62.5 - 69.4% = D
79.5 - 82.4% = BC	<62.4% = F

NOTE: If you miss an ‘unexcused’ lab session will NOT be able to hand that lab report in AND you will lose 5pts of the lab practical exam. If you must miss lab, please discuss it with your lab instructor.

Lecture/Discussion Topics and Reading Assignments

(dates and topics subject to change without notice)

Week	Topic	Reading Assignment
1	a) Introduction to course and organization b) Chapter 1 and 2 c) Chapter 3	Should have all class materials by end of week. pgs. 39-72
2	a) Chapter 5 b) Chapter 6 c) Chapter 7	pgs. 93-132 pgs. 109-132 pgs. 133-148
3	a) Chapter 8 b) Chapter 9 c) Chapter 9	pgs. 149-166 pgs. 167-198 pgs. 167-198
4	a) Chapter 10 & 11 b) Review c) Exam #1	Lecture
5	a) Chapter 12 b) Chapter 13 c) TBD	Lecture Lecture
6	a) Chapter 14 b) Chapter 20 (Brief Chapter 19) c) Chapter 21	Lecture pgs. 437-452 pgs. 453-472
7	a) Break b) Break c) Break	
8	a) Chapter 22 b) Chapter 22 c) Chapter 23	pgs. 473-502 pgs. 473-502 pgs. 503-520
9	a) Review b) Exam #2 c) Chapter 28	pgs. 577-614
10	a) Chapter 29 b) Chapter 30 c) Chapter 31	pgs. 615-644 pgs. 645-672 pgs. 673-704
11	a) Chapter 34 b) Chapter 35 c) Chapter 36	pgs. 761-778 pgs. 779-798 pgs. 799-820
12	a) Chapter 37 b) Chapter 39 c) TBD	pgs. 821-844 pgs. 875-916
13	a) Chapter 41 b) Chapter 42 c) Exam #3	pgs. 937-962 pgs. 963-992
14	a) Presentations (3 x 12 min each) b) Presentations (3 x 12 min each) c) Presentations (3 x 12 min each)	
15	a) Presentations (3 x 12 min each) b) Final Quiz c) Make-up time (if needed)	