Online Nursing Microbiology
Biology 2460-500
Summer 2016
May 23 - July 15

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REQUIRED MATERIALS:
Lecture: *Microbiology A Systems Approach*, 4th edition by Marjorie Kelly Cowan
UTA Bookstore Special ISBN Number: 978 - 1308135885

DIRECT LINK TO PURCHASE BOOK ONLINE:
http://connect.mheducation.com/class/m-badon-copy-of-fall-2460-001

McGraw Hill Tech Support & FAQ: (800) 331-5094
Email & Chat: www.mhhe.com/support
www.connectstudentssuccess.com

Lab Manual: This course includes a laboratory component which you must complete by using a virtual microscope (V-Scope) and a lab manual. You will order what is called a "LabPaq" but it is only a CD. The lab manual, the V-Scope and supplemental slides are on the CD you will order from the company, **Hands-On Labs**.

Order your LabPaq at **www.holscience.com**.
Click on "**STUDENTS ORDER HERE**" at the top of the page and enter UTA's login and password.
LOGIN: C000388 **PASSWORD**: labpaq
The LabPaq you will purchase is **LabPaq, MB 8 labs (LP-0351-MB-01)** ($106 + tax).

Hands on Lab Contact Information:
Hands-On Labs, Inc.
Toll Free: 866-206-0773 ext 3
Info@holscience.com

IMPORTANT CAUTION: Occasionally used LabPaqs, lab manuals, and even LabPaq answers are offered for sale on the Internet. While the cost savings seem attractive, such a purchase represents false economy. LabPaq equipment, supplies, lab manual instructions, and questions change frequently. Thus, experiments performed, materials used, and questions asked in a prior semester's LabPaq may not match those of the current semester.

STUDENT LEARNING OUTCOMES:
Students will be introduced to the basic knowledge of general microbiology. The lab teaches fundamentals techniques of microbiology, such as aseptic techniques, inoculations, transferring, and staining.

COURSE DESCRIPTION:

This course will give the nursing student a fundamental background of knowledge that will be applicable to the care of infectious patients, to the control of microbial diseases, and an understanding of microorganisms. The online laboratory will provide practice in theory of aseptic techniques, the use of disinfectants and antimicrobial agents, and the V-scope observations of bacteria.

PREREQUISITE COURSES: Biol 1335 or Biol 1441

STUDENT RESPONSIBILITIES:
1. Familiarize yourself with the course syllabus. YOU are responsible for this information.
2. Assume responsibility for your own learning.
3. Adhere strictly to standards of academic honesty, cheating results in an automatic F.
4. Show respect for instructor and fellow students at all times.

GRADING POLICIES:
Your course grade will be calculated as follows:

Weekly Lecture Quizzes	45%
Lecture Final Exam	10%
Weekly Lab Quizzes	35%
Lab Final Exam	10%
	100%

The following grading scale will be used to determine your course grade:
A 89.45 – 100
B 79.45 – 89.44
C 69.45 – 79.44
D 59.45 – 69.44
F less than 59.44%
The grading scale above will be strictly adhered to.

WEEKLY LECTURE QUIZZES:
- Lecture quizzes will account for 45% of your overall grade.
- Quiz materials will come from chapter readings and power point presentations.
- All weekly quizzes are multiple-choice and true/false questions.
- There are 10 weekly lecture quizzes.
- The lowest lecture quiz grade will be dropped; therefore, your grade will be calculated on 9 quizzes.
- Each quiz will represent 11.11% of your lecture quiz grade.
- There are NO make-up quizzes. Each quiz must be taken by the due date, with no exceptions.
- Each quiz must be taken by the due date, or you will be penalized with a **5 point deduction for each hour over the due date.**
- If a quiz is submitted **more than 1 day late, you will receive a zero**.
- If you miss a quiz, by failing to log on and complete the quiz when it is available online, then you will receive a zero for the missed quiz. You may only drop one quiz.
- Each weekly quiz will be 20 questions each.
- You will have 25 minutes to take the 20 question quiz.
- The end of each week is Sunday. All assignments/quizzes are due at the end of the week by Sunday at 11:59 pm central time.

LECTURE FINAL EXAM:

- The lecture final exam accounts for 10% of your overall grade.
- The final exam is COMPREHENSIVE.
- The final exam will be 50 multiple-choice and true/false questions.
- There is NO MAKE-UP for the final exam.
- If you miss the final exam, by failing to log on and complete the final exam when it is available online, then you will receive a zero for the final exam.
- You will have 55 minutes to take the 50 question final exam, no exceptions.
- YOU MAY NOT DROP YOUR LECTURE FINAL EXAM GRADE FOR ANY REASON.
- The end of each week is Sunday. Assignments/quizzes (due at the end of the week) are due Sunday night at 11:59 pm central time.

WEEKLY LAB QUIZZES:

- Weekly lab quizzes will account for 35% of your overall grade.
- Weekly lab quiz materials will come from lab chapter readings and lab experimentations.
- All weekly quizzes are multiple-choice and true/false questions.
- There are 8 weekly lab quizzes.
- The lowest weekly lab grade will be dropped.
- Each weekly quiz accounts for 14.29% of your lab quiz average.
- There are NO make-up lab quizzes.
- Each quiz must be taken by the due date, or you will be penalized with a **5 point deduction for each hour over the due date.**
- If a quiz is submitted **more than 1 day late, you will receive a zero**.
- If you miss submitting a lab quiz, by failing to log on and submit the lab report by the specified date and time, then you will receive a zero for the missed lab report.
- You may only drop one lab quiz.
- Each weekly quiz will be 10 questions.
- You will have 15 minutes to take the 10 question quiz.
- The end of each week is Sunday. Assignments/quizzes (due at the end of the week) are due Sunday night at 11:59 pm central time.

LAB FINAL EXAM:

- The lab final exam accounts for 10% of your overall grade.
- The lab final exam is COMPREHENSIVE.
- The lab final exam will be a combination of 25 multiple-choice and true/false questions.
- There is NO MAKE-UP for the lab final exam.
- If you miss the final exam, by failing to log on and complete the final exam when it is available online, then you will receive a zero for the final exam.
- You will have 30 minutes to take the 25 question quiz.
- **YOU MAY NOT DROP YOUR LAB FINAL EXAM GRADE FOR ANY REASON.**
- The end of each week is Sunday. Assignments/quizzes (due at the end of the week) are due Sunday night at 11:59 pm central.

DROP POLICY:

The last drop date for undergraduates will occur at a point two-thirds of the way through a given semester. (For the exact date, refer to the academic calendar of the appropriate specific semester, at www.uta.edu/uta/acadcal). Students are allowed to drop until 4 p.m. CST on this date. Undergraduate students who drop a course on or before the last drop date will receive an automatic grade of "W" regardless of whether you have completed assignments or not. Drops and withdrawals done after late

registration is closed must be done by the student's academic advisor.

REVIEW OF WEEKLY QUIZZES

1. Do we get to review the answers of the quizzes immediately after we take the quizzes? No

2. When do we get to review the questions we missed on the quiz?
The deadline for each quiz is on Sunday at 11:59 pm CST. Once the deadline has passed for the previous quiz, the following Monday, you will have access to view the quiz from the prior week. You will have access from that Monday to Friday.
*PLEASE NOTE: You will have access to view the questions and the answers you submitted.

Important University Policies:

Americans With Disabilities Act: The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 93112 -- The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act - (ADA), pursuant to section 504 of The Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens. As a faculty member, I am required by law to provide "reasonable accommodation" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels.

Academic Integrity: It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University. "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regents' Rules and Regulations, Series 50101, Series 2.2).

Student Support Services: The University of Texas at Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. These resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals to resources for any reason, students may contact the Maverick Resource Hotline at 817-272-6107 or visit www.uta.edu/resources for more information.

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as lecture, seminar, or laboratory will be asked to complete an online Student Feedback Survey (SFS) about the course and how it was taught. Instructions on how to access the SFS system will be sent directly to students through MavMail approximately 10 days before the end of the term. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback data is required by state law; student participation in the SFS program is voluntary.

Drop for Non-payment of Tuition: Payment must be received by the term due date or your registration will be cancelled. This due date is approximately one week before the first day of classes. (For the exact date,

refer to the academic calendar of the appropriate specific semester, at www.uta.edu/uta/acadcal). If your registration is cancelled for non-payment, you may reregister for classes but only if seats are available.

MavMail: UTA has adopted MavMail (e-mail) as an official means of communication with students. Through the use of email, UTA is able to provide students with relevant and timely information, designed to facilitate student success. In particular, important information concerning registration, financial aid, payment of bills, and graduation may be sent to students through email. All students are assigned an email account and information about activating and using it is available at www.uta.edu/email. New students (first semester at UTA) are able to activate their email account 24 hours after registering for courses. There is no additional charge to students for using this account, and it remains active as long as a student is enrolled at UT-Arlington. **Students are required and responsible for checking their MyMav email regularly.**

Class Schedule for 8-Week Course

Module 1 – Week 1

1.1 Syllabus Quiz
1.2 Introduction and Chapter 1 – The Main Themes of Microbiology
1.3 Lecture Quiz 1 (due end of Week 1)
1.4 Lab 1 – Observing Bacteria and Blood
1.5 Read discussion and review very carefully
1.6 V-scope (LabPaq CD) – Intro to the V-scope video
1.7 Lab Quiz 1 (due end of Week 1)

Module 2 – Week 2

2.1 Chapter 2 – The Chemistry of Biology
2.2 Lecture Quiz 2 (due end of Week 2)
2.3 Lab 2 – Bacteria Morphology
2.4 Lab Quiz 2 (due end of Week 2)

Module 3 – Week 3

3.1 Chapter 3 – Tools of the Laboratory
3.2 Lecture Quiz 3 (due end of Week 3)
3.3 Lab 3 – Aseptic Techniques & Culturing Microbes
3.4 Lab Quiz 3 (due end of Week 3)

Module 4 – Week 4

4.1 Chapter 4 – Prokaryotic Profiles
4.2 Lecture Quiz 4 (due end of Week 4)
4.3 Chapter 5 – Eukaryotic Cells and Microorganisms
4.4 Lecture 5 Overview (1 page chart/table comparing and contrasting eukaryotic and prokaryotic cell) (due end of Week 4)
4.5 Lab 4 – Isolation of Individual Colonies
4.6 Lab Quiz 4 (due end of Week 4)

Module 5 – Week 5

5.1 Chapter 6 – Intro to Viruses
5.2 Lecture Quiz 6 (due end of Week 5)
5.3 Chapter 7 – Elements of Microbial Nutrition, Ecology, and Growth
5.4 Lecture Quiz 7 (due end of Week 5)
5.5 Lab 5 – Differential Staining

5.6 Lab Quiz 5 (due end of Week 5)

Module 6 – Week 6

6.1 Chapter 8 – Microbial Metabolism
6.2 Lecture Quiz 8 (due end of Week 6)
6.3 Chapter 9 – Microbial Genetics
6.4 Lecture Quiz 9 (due end of Week 6)
6.5 Lab 6 – Methyl Red Voges-Proskaeur Test
6.6 Lab Quiz 6 (due end of Week 6)

Module 7 – Week 7

7.1 Chapter 11 – Physical and Chemical Control of Microbes
7.2 Lecture 11 Overview (I page review) - (due end of Week 7)
7.3 Lab 7 – Antibiotic Sensitivity
7.4 Lab Quiz 7 (due end of Week 7)
7.5 Lab 8 – Microbes in the Environment
7.6 Lab Quiz 8 (due end of Week 7)

Module 8 – Week 8

8.1 Comprehensive Lecture Final (due end of Week 8)
8.2 Comprehensive Lab Final (due end of Week 8)