

**Fall 2013
Biol 2460 500
Online Nursing Microbiology**



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REQUIRED MATERIALS:

Lecture: Microbiology A Systems Approach, Third Edition, by Marjorie Kelly Cowan, McGraw Hill Publishers.

**UTA Bookstore Special ISBN Number: 978-0-07-7616809,
COWAN: LSQ (UNIV TX ARLINGTON) MP BIOL 2460.**

DIRECT LINK TO PURCHASE BOOK ONLINE:

http://www.mhprofessional.com/mhhe_product.php?isbn=0077616804&cat=108

BIOL2460: Microbiology with ConnectPlus, PPK (University of Texas Arlington - LSQ) ISBN: **0077616804**

Lab Manual: MICROBIOLOGY A LABORATORY EXPERIENCE For Independent Study Courses Accompanies HOL LabPaq by Cynthia Alonzo
Hands- On Labs, Inc.
3880 South Windermere St.
Englewood, CO 80110
Toll Free: 866-206-0773
Info@LabPaq.com

The Lab Kit will contain the Lab Manual:

- The Lab Kit will consist of a CD only.

This course includes a laboratory component which you must complete by using LabPaq **LP-0351-MB-01: LabPaq, MB, which costs \$99**. After you are certain you intend to complete the course, order your LabPaq directly online at www.holscience.com, click on "ORDER HERE", and enter UTA's login and password. **LOGIN: C000388** and **PASSWORD: labpaq**.

- Financial Aid students should contact their Financial Aid advisor or campus bookstore for ordering instructions.
- Keep your sales order number and be prepared to supply it to your instructor as proof of purchase of required course materials. LabPaqs are shipped from Denver, CO within one business day and delivered to most US locations within 5 days. It is not necessary to order LabPaqs more than a week prior to the course start date.

Note: **Please DO NOT** order the LabPaqs until you are certain you will stay in your course to avoid costly return, shipping, and restocking fees.

Contact Academic Relations: AcademicRelations@labpaq.com, or Customer Service: Info@LabPaq.com, or call 1-866-206-0773.

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:

Student learning outcomes are to offer an introduction and basic knowledge of general microbiology. The lab will entail teaching basic and fundamentals techniques of microbiology, such as aseptic techniques, inoculations, transferring, and staining.

COURSE DESCRIPTION:

The intention of this course is to present basic information, relevant to nursing practice, with the principles of microbiology. 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 laboratory will provide practice in aseptic techniques, the use of disinfectants and antimicrobial agents, and V-scope observations of bacteria.

PREREQUISITE COURSES:

Biology (BIOL2457 and BIOL2458)

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 final course grade will be calculated as follows:

Weekly Lecture Quizzes	45%
Lecture Final Exam	10%
Weekly Lab Quizzes	35%
Lab Final Exam	<u>10%</u>
	100%

The following grading scale will be used to determine your final course grade:

A	90-100
B	80-89
C	70-79
D	60-69
F	less than 60%

The grading scale above will be strictly adhered to; your final grade will be rounded up or down!!

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.
- 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**, no exceptions.
- **The end of each week is Sunday. Assignments - Quizzes (due at the end of the week) are due Sunday night at midnight.**

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 midnight.**

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 lab report grade will be dropped. Each lab report accounts for 14.29% of your lab report average.
- There are **NO make-up lab quizzes**.
- 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 report.
- Each weekly quiz will be **10 questions**.
- You will have **15 minutes to take the 10 question quiz**, no exceptions.
- **The end of each week is Sunday. Assignments - Quizzes (due at the end of the week) are due Sunday night at midnight.**

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**, no exceptions.
- **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 midnight.**

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 5 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. 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. If you require an accommodation based on disability, I would like to meet with you in the privacy of my office, during the first week of the semester, to make sure you are appropriately accommodated.

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:

UT-Arlington has adopted MavMail (e-mail) as an official means of communication with students. Through the use of email, UT-Arlington 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 MymavMail 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-Proskauer 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 (1 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)