

GEORGIA PERIMETER COLLEGE
BIOLOGY 1913-200, MICROBIOLOGY CRN 32159
SPRING SEMESTER 2005
LECTURE SYLLABUS
Room NE-0380

Instructor: Dr. Robert J. McDonough **Office:** NE 2226

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Web Page gpc.edu/~rmcdonou

Lecture Hours: Office Hours:

| | | |
|-----------|---------------------------|--------------------------|
| MW | 11:00am – 12:15pm, | 2:00pm – 4:00pm |
| TR | 9:00am – 9:30am, | 3:20pm – 4:30pm |
| F | 9:00am - 10:00am, | 11:00am – 12:15pm |

Textbook: **MICROBIOLOGY** an Introduction, Tortora, G.J., Funke, B.R., Case, C.E.
Eighth Edition, Addison Wesley Longman, Inc..

Course Description: 3 Semester hours. This is a study of fundamental principles including basic culture and staining techniques, cellular metabolism, sterilization and disinfection, basic principles of immunology, and etiology of some pathogenic diseases. This course is designed primarily for students who intend to enter one of the health professions, i.e. nursing and dental hygiene. **BIOL 1913 Laboratory** (1 semester hour) is a **corequisite** for the lecture.

Course Prerequisites: BIOL1612 Lecture and BIOL 1612 Lab with a "C" or better.

All faculties will verify that students meet the course prerequisites. At the first class meeting the instructor may request that the students present at the second class meeting a Georgia Perimeter College Transcript or a Georgia Perimeter College Grade Report verifying the satisfactory completion of prerequisites (either through Georgia Perimeter College or through transfer credits).

Course Objectives:

1. To provide a historical background of modern microbiology.
2. To familiarize the student with techniques of microscopy.
3. To familiarize the student with the characteristics of prokaryotic cells vs eukaryotic cells.
4. To impart an understanding of microbial metabolism and its use in the identification and classification of organisms.
5. To learn the requirements for bacterial growth.
6. To familiarize the student with the basic principles of bacterial genetics.
7. To introduce the diversity and taxonomy of microorganisms including bacteria, viruses, protists, and the multicellular fungi and helminths.
8. To teach various techniques of microbial control including sterilization, disinfection, antimicrobial therapy, stressing aseptic technique.
9. To investigate host-microbe interactions including epidemiology, nonspecific defense, and immunity.
10. To gain the ability to recognize organisms and relate pathogenic organisms to the signs and symptoms of the diseases they cause.

Attendance Policy:

It is the student's responsibility to attend **ALL** classes, laboratories, tests, and examinations **as scheduled**. After the **fifth (5th)** absence the instructor may award an **F**. On the Official Roll the instructor may record an **"F"** and the last date of attendance for students who exceed the Absence Policy before the midpoint of the semester. The lecture and laboratory are **COREQUISITES**. If you withdraw or are withdrawn from the lecture you will automatically be withdrawn from the laboratory.

Withdrawal Policy:

If it becomes necessary for a student to withdraw from this course, he/she must confer with the instructor after beginning the withdrawal procedures in the Registrar's Office. A student who officially withdraws from this course by the midpoint of the semester will receive a **"W."** A student who withdraws after the midpoint of the grading period (including final examinations) will receive a **"F"** unless approval as a hardship withdrawal is received from the appropriate department head or Dean. The official date of withdrawal will be the date the Student-Initiated Withdrawal Form is received in the Registrar's Office.

Important Dates:

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|--------------------------------|--|
| First Day of Class | January 11, 2005 |
| Spring Break | March 7 – 11, 2005 |
| Midpoint of Semester | March 16, 2005 |
| Last Day of Class | May 3, 2005 |
| Lab Final Exam | May 3, 2005 ALL Sections during laboratory period |
| Final Examination | Wednesday May 11, 2005 10:30pm -12:30pm |

Academic Dishonesty/Cheating Policy:

Any student found by the instructor to have cheated by copying from another student on a graded test or presenting the words or ideas of another person on a graded assignment without crediting the source will receive a **"0"** for that test or assignment for the first offense. The second offense will result in the assignment of a grade of **"F"** for the course.

Disruptive Behavior

Any student behavior (outbursts or excessive talking during the lecture) that detracts the instructor from directing the class or keeps other students in the class from following the lecture is considered disruptive. After a third warning the instructor reserves the right to exclude the student offender(s) from that lecture. If the offending behavior persists Protective Services will be called. Upon the second exclusion the instructor will permanently exclude the student from the class and will issue an **"F"** for the final semester grade.

Make up Tests and Examinations

The **FINAL EXAMINATION IS MANDATORY** for the successful completion of the course. A

missed final exam will result in an "F" in the course. No make-up unit test or final exam will be given since the class schedule indicates the dates and times of tests and final examination. Each person should plan well in advance to be present and on time for each unit test and the final examination. An exception to this policy will be made under the conditions, which follow:

- a. There is a medical emergency for the student or there is a medical emergency for a close family member which demands the presence of the student, or
- b. The student needs to attend the funeral of a close family member.

In some instances, the student may be required to present some documentation, e.g., a telephone call from the attending physician or a written note, before a decision will be made regarding an excused absence from a scheduled test or final exam.

The instructor will make the final decision regarding a make-up test/exam. An essay make-up test/exam **MAY** be given in lieu of the one given in class. In some instances, when it is not possible to administer a make-up test or exam, the next test might count double to compensate for the excused absence from a test or examination.

If an absence is excused, the missed class period is recorded as an absence and counts toward the total number of class absences which will result in an instructor's withdrawal should the number exceed **5** scheduled classes.

An unexcused absence from an announced test will result in a zero (0) which will be averaged with the total number of points to determine the final course grade.

Grade Determination:

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| 4 Unit Tests | 80 % of grade |
| Final Examination | 20% of grade |

The grading system, which appears on page 56-57 of the 2002-2004 Georgia Perimeter College Catalog, is the same system, which will be utilized to determine final letter grades for this course.

Midterm Average

At the midpoint of the semester , if requested, the student will be appraised of a method for evaluating their academic performance at the mid-semester point.

Materials to be provided by student:

It is the policy of the Science Division of Georgia Perimeter College to **REQUIRE THE STUDENT** to provide **Scantron** Test Answer Sheets **FORM NO. 882-ES** and a **# 2 pencil** for taking tests. It is **THE STUDENT'S RESPONSIBILITY** to bring the answer sheets and pencils to the assigned tests. These materials can be purchased in our Georgia Perimeter College Book Stores on each campus. If a student does not come prepared in possession of the required answer sheets and pencils they will not be allowed to take the tests or will be penalized by losing time on the assigned testing period until they are in possession of these required materials.

Americans With Disabilities Act Statement

If you are a student who is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please seek assistance through the Center for Disability Services (CDS). A CDS Counselor will coordinate those services with the instructor.

Equal Opportunity Statement

No person shall, on the grounds of sexual preference, race, color, sex, religion, creed, national origin, age or disability, be excluded from employment or participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program or activity conducted by Georgia Perimeter College.

Affirmative Action Statement

Georgia Perimeter College adheres to affirmative action policies designed to promote diversity and equal opportunity for all faculty and students.

THE REGENTS' TEST

The University System of Georgia requires that all students enrolled in undergraduate degree programs in University System institutions (including Georgia Perimeter College) successfully complete all parts of a competency examination in reading and English composition. This competency examination is commonly called "the Regents' Test". The test is free of charge. A student has two attempts to pass this test before accumulating 45 hours of collegiate credit. Please sign up for the Regents' Test when you enroll in English 1102. Do this in time to have two attempts before accumulating 45 credit hours!