

BIOL 3450 - GENERAL MICROBIOLOGY CRN 25249 Spring 2015

M,W,F 11:00-11:50 am Science Building, Room 109

Instructor: Dr. Don Warner **Campus phone:** 652-7631. **Email:** warner@dixie.edu

Office: Sci 133. **Office hours:** 3 to 5 pm M,W, or 7 to 8 am F, or by appointment.

Click on this link - <http://www.dixie.edu/reg/syllabus/> - for comprehensive information on the Semester Dates, the Final Exam Schedule, and University resources such as the library, Disability Resource Center, IT Student Help Desk, Online Writing Lab, Testing Center, Tutoring Center, and Writing Center. In addition, please review DSU policies and statements with regards to Academic Integrity, Disruptive Behavior and Absences related to university functions.

Description: BIOL 3450/3455 General Microbiology is a required course for Biology majors and is strongly suggested for those students in Pre-Med, Pre-Dent, or Pre-Vet programs. Prerequisites are BIOL 3010,3030,3040/45 and CHEM 2310/15 or equivalent.

Specific General Microbiology Course Objectives:

I. History

1. People who have made important contributions to the understanding of microbiology.

II. Microbial cell biology

2. Information flow within a cell and between cells.
3. Cellular structure and function of Bacterial, Archaeal, and Eukaryote cells.
4. Growth, division, and death in microbial cells.
5. Cellular energy metabolism.
6. Regulation of cellular activities.

III. Microbial genetics

7. Inheritance of genetic information.
8. Causes, consequences, and uses of mutations.
9. Exchange and acquisition of genetic information.

Required Texts: **Brock BIOLOGY OF MICROORGANISMS** (13th Ed) by Madigan, Martinko, Stahl, and Clark. **Note:** Make sure you purchase a USED copy of the textbook or an E-book copy. A newer edition was published last fall and it is unlikely that you would be able to resell a new copy of the 13th edition.

Additional good websites that you may find helpful during the semester:

- <http://www.textbookofbacteriology.net/> <http://www.doctorfungus.org/>
- <http://www.virology.net>

REBELMAIL: Important class and college information will be sent to your Rebelmail email account. This information includes your DSC bill, financial aid/scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Rebelmail email account. If you don't know your user name and password, go to www.dixie.edu and select "Rebelmail," for complete instructions. You will be held responsible for information sent to your Rebelmail email, so please check it often.

For the following course policies, exceptions are subject to the instructor's discretion:

- If a student fails to complete an assignment or exam on the assigned date, the instructor may choose to allow a "make-up", provided there is a **doctor's certificate stating that the student was too injured or too ill to participate on the scheduled date**. If a student is participating in a Dixie State University official event that conflicts with the schedule, they **must see the instructor IN ADVANCE of their missing the deadlines to arrange alternative dates**.
- You are in college and will be respected as an adult. Disruption or other discipline problems are not tolerated; any person not respecting the rest of the class will be removed. All cell phones and beepers must not be audible during class. Each time your appliance tings, beeps, rings, chirps, etc., 10 points will be deducted from your course grade.
- It is expected that **students will attend each class period**. Unannounced extra credit quizzes will occur at random throughout the semester and there will be no makeup for missed quizzes.

Strategy for Success:

- **Read the chapter before coming to class; outline and list main concepts listed on the learning objectives.**
- **Answer the end of chapter questions and devote time to preparing your answers-** Write complete sentences and draw illustrations that you can use as a study tool.
- **Bring your book to class and mark the figures** and illustrations.
- **Come see me for help on a regular basis-** don't wait until the day before an exam when it is too late for much assistance.
- **Form a study group** (this will help more than you know)

Examinations:

- Exam format is varied and might include some definitions, matching, labeling, fill-in-the blank, sketching, problem solving, multiple choice, and short essays.
- The student is tested on the text readings and material covered in lecture, however some material may be taken from the lab.
- **Critical thinking questions** will also occur on tests in which the student is presented with a clinical situation and asked to come up with a solution.
- Five exams will be completed in the testing center, of which the lowest exam will be dropped. Exams must be completed during the hours of operation of the testing center. Pay close attention to listed testing dates. The testing center schedule can change, and it is the student's responsibility to check hours of operation for each exam.
<http://new.dixie.edu/testing/>

Grading: There will be **500 points possible** for the course.

1) Unit Exams (400 pts.): **Five Exams** will be given covering material in the textbook. The four best exam scores count toward the final grade since the lowest exam score will be dropped. There are no make-ups of unit exams without a doctor's written statement for your absence. All exams except the final exam will be administered in the testing center.

2) Final Exam (100 pts.): The final exam will be given in class in accordance with the final exam schedule. It is comprehensive and there is no makeup. Because finals are so important, to take a final exam at any time other than its scheduled time requires the approval of the division Dean. **You must take the final exam at the prescribed time in order to pass the course.**

Unannounced Quizzes	Extra credit
Exams (four highest).....	400 pts
Final Exam	100 pts
Total	500 pts

Grading Standard:

B+ = 87-89.99%	C+ = 77-79.99%	D+ = 67-69.99%	
A = 94-100%	B = 84-86.99%	C = 74-76.99%	D = 64-66.99%
A- = 90 -93.99%	B- = 80 -83.99%	C- = 70 -73.99%	D- = 60 -63.99%
	F = <60%		

Tentative Lecture/Exam Schedule

This schedule may change and the actual chapters and material covered for a particular exam may change; you must attend class on a regular basis to know.

Jan. 12-16	Introduction, Chapter 1
Jan. 19	Martin Luther King, Jr. Holiday
Jan. 21-23	Chapters 2 & 3
Jan. 23-26	Test 1
Jan. 26-Feb 13	Chapters 4 and 5
Feb 16	President's Day Holiday
Feb. 13-17	Test 2 in testing center
Feb. 16-Mar 6	Chapters 6, 7 and 8
Mar 9-13	Spring Break
Mar 16-18	Test 3 in testing center
Mar 16-Apr 3	Chapters 9 and 10
Apr 3-6	Test 4 in testing center
Apr 6-24	Chapters 17 and 18
Apr 24-27	Test 5 in testing center
Apr 27-29	catch up
Apr 30	Reading Day

The final exam will be given at the following time: Monday, May 4 from 10:00 to 12:00

Please Note: You must take the final exam or you fail the entire course!