

M,W,F 8:00-8:50 a.m. SCI 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.

Required Texts: *Microbiology with Diseases by Taxonomy*, (4th ed.) by Robert W. Bauman. In addition to the textbook, you will need to pay for access to the textbook website. You may access the textbook website at: www.masteringmicrobiology.com. You have the option of purchasing a new textbook with access code to the website from the campus bookstore, or you can go directly to the above website and purchase access at the website. An e-text version of *Microbiology with Diseases by Taxonomy* is available for purchase at the website or you may search online for an e-text version or a used print version of the textbook, but **you must purchase an eText or print version of the textbook**. You **must also purchase access to the Mastering Microbiology website**. To purchase access, you will need to enter the Instructor's course ID number: **MMBWARNERSPRING15**. This site contains homework assignments and a bunch of additional resources for students to help you learn and understand the science of microbiology.

Laboratory Component: You **must be co-enrolled in the laboratory, BIOL 2065**, which is a separate course with a separate syllabus and grading policy. **Labs will meet the first week of school on MONDAY** (12:00-1:30 and 2:00-3:30 pm).

Course Description: BIOL 2060-Principles of Microbiology is a prerequisite course for health related programs at most colleges: nursing, dental hygiene, respiratory therapy and many other programs. It may be taken by non-science majors to fulfill graduation requirements. This course does not fulfill the requirement for science majors. Biology majors must take **BIOL 3450/3455 – General Microbiology** to meet the requirements. Students in Pre-Med, Pre-Dent, Pre-Vet, and Pre-PA programs should check the requirements of the respective universities to which they wish to apply, but in most cases will need to take the course for science majors.

General Life Science Course Objectives: After successful completion of this course, the students will through testing, written or oral reports:

- Explain and apply major concepts of a view of life, the cell, and the genetic basis of life,
- Demonstrate knowledge of the process of science including asking testable questions, using inductive and deductive reasoning in forming hypotheses and in making reliable predictions,
- Explain the objective of science and research including distinguishing among the natural sciences, liberal arts (humanities and fine arts) and social and behavioral sciences, and pseudo-science,
- Compute ratios, proportions, percentages, decimals, fractions, frequencies, and elementary probabilities.

Specific Principles of Microbiology Course Objectives:

- demonstrate the importance of the Golden Age of microbiology
- understand the nature of microbial growth
- describe the unique features of microbes
- demonstrate knowledge of the methods used to grow and study microbes
- understand the role of endospore formation in virulence
- understand methods used to curtail microbial growth
- elucidate the relationships between microbes and man, and microbes and other organisms
- gain an understanding of viral diseases, prions and viroids
- understand principles of anti-microbial drugs
- know the life cycles of pathogenic protists, fungi and helminthes, and some of the various diseases that these pathogens cause
- demonstrate knowledge of common staining procedures
- gain an appreciation for nonspecific and specific immune responses
- discuss mechanisms of pathogenicity and virulence
- build a foundation of microbiological principles that will allow the understanding of more advanced concepts
- greatly build their biologic and medical vocabulary
- apply the specific factual knowledge gained in the course to clinical cases

If you are a student with a medical, psychological, or learning disability or think you might have a disability and would like accommodations, contact the Disability Resource Center (652-7516) in the North Plaza. The Disability Resource Center (<http://dixie.edu/drcenter/>) will determine eligibility of the student requesting special services and determine the appropriate accommodations related to their disability.

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

- 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 immediately from the class roster. All cell phones and beepers must not be audible during class. If your appliance does tingle, beep, chirp, etc., 10 points will be deducted from your course grade.
- **LATE WORK IS NOT ACCEPTED** and **MAKE-UP WORK** will require a doctor's certificate stating that you were too injured or too ill to participate on the scheduled date.
- If a student is participating in a Dixie State College Official event that conflicts with the schedule, they **must see the instructor IN ADVANCE** to arrange a makeup date. Students may attend an alternate section of a lab with **pre-approval** of their instructor and the instructor of the other section.

REBELMAIL: Important class and college information will be sent to your Rebelmail email account. This information includes your DSC bill, financial aid/scholarship notices, and 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.

Tutoring Center: HCC, Room 431, Drop-In tutoring allows students to work on assignments independently while having the opportunity to have tutor assistance when needed. Peer tutors are available Monday through Friday during designated hours. Students are encouraged to drop by the Tutoring Center to pick up a *Drop-In Tutoring Schedule* that lists specific times and subjects. (Check the *Drop-In Schedule* regularly because times and subjects offered may change during the course of a semester.) Each time you come in for Drop-In Tutoring, you must present a valid Dixie State College student identification card to the receptionist. The receptionist will sign you in and keep your card until you leave the Tutoring Center.

Instructor help session There will be a weekly one hour help session (W, 5-6 pm) in which we will go over exams and chapter review questions and also answer any other questions.

Academic dishonesty/academic integrity policy :

ACADEMIC DISCIPLINE **34.1 Cheating:** Academic dishonesty in any form will not be tolerated at Dixie State College, including but not limited to plagiarism on written assignments, submitting other person's work as one's own, and cheating on exams or quizzes. Teachers at Dixie State College may discipline students proven guilty of academic dishonesty by:

- 34.1.1 Giving a failing grade on the specific assignment where dishonesty occurred,
- 34.1.2 **Failing the student in the entire course,**
- 34.1.3 Immediately dismissing and **removing the student from the course,** and/or
- 34.1.4 Referring the student to Student Affairs, a committee which may **reprimand, place on probation, suspend, and/or expel the student.**

34.2 Disruptive Behavior: Teachers at Dixie State College have the right to manage the classroom environment to ensure a good learning climate. Toward this end, teachers (or college security) **may dismiss and remove disruptive students from individual class** activities. If a student's behavior continues to disrupt class activities, the teacher may dismiss and **cause the removal of disruptive students from their course.**

34.3 Student Appeals: Students who believe themselves wrongfully disciplined may appeal those disciplinary actions through the standard grievance procedure. (Policy 5-35)

- **All cell phones and beepers must not be used** during class. If your appliance tings, beeps, rings, chirps, etc., **10 points will be deducted from your course grade the first time, and again for every time thereafter.**
- **Text or instant messaging, gaming,** and any other extraneous use of electronic devices during lecture is annoying to the instructor, and equally damaging to you as a student. Peer reviewed investigations conclude that less information is absorbed and retained when these devices are in use. If your instructor observes you using a device, **10 points will be deducted from your course grade the first time, and again for every time thereafter.**

Strategy for Success:

- **Read the chapter before coming to class; outline and list main concepts listed on the learning objectives.**
- **Go to the website:** <http://www.masteringmicrobiology.com>
- **Answer questions at the end of each chapter and additional quiz questions and practice exam questions on the MasteringMicrobiology web site.**
- **Form a study group** (this will help more than you know)
- **Attend help sessions and/or 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.

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.
- Exams will be completed in the testing center. Exams must be completed during the hours of operation of the testing center. Pay close attention to listed testing dates. If the line is too long and the testing center closes before a test can be taken on the last day of the test, then the student will get a **zero** on the exam, so be there early or suffer. The testing center schedule can change, and it is the student's responsibility to check hours of operation for each exam.

Grading: There will be **750 points possible** for the course.

1) Unit Exams (500 pts.): **Six Exams** will be given covering material in the textbook. The five 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.**

3) Homework (150 pts.): Weekly homework assignments will be given that will be worth 10 points each. They will be due and must be submitted by Saturday evening at 10:00 pm. Only partial credit will be given if the homework is submitted after this time. You may access the homework assignments at the textbook website: www.masteringmicrobiology.com. Instructor's course ID: **MMBWARNERSPRING15**

4) Extra Credit: (? pts.)

- a. Occasional quizzes (5 pts. each) will be given that count for extra credit. These will be given on a small scantron form, so come to class prepared with one so you can earn these extra points. Since these are extra credit quizzes, there will be no makeup quiz for any reason.

5) Final Grade: Your final grade will be based on a possible point total of 750 points (five highest exam scores, plus the final). At the end of the semester, any extra credit points earned from quizzes will be added in to determine your final grade. Your final grade will be based upon the following grading standard.

Quizzes (extra credit, no makeup).....	?
Homework (150 points).....	150
Exams (five highest scores at 100 points each).....	500
Final Exam (100 points).....	100

Grading Standard:

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

Tentative Lecture 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 19-23	Chapter 2
Jan 26-30	Chapter 3
Jan 30-Feb 2	Test 1 in testing center
Feb. 2-6	Chapter 4
Feb. 9-13	Chapter 5
Feb. 13-17	Test 2 in testing center
Feb 16	President's Day Holiday
Feb. 17-20	Chapter 6
Feb 23-27	Chapter 7
Feb 27-Mar 2	Test 3 in testing center
Mar 2-6	Chapter 9
Mar 9-13	Spring Break
Mar 16-20	Chapter 10
Mar 23-27	Chapters 11 & 19
Mar 27-30	Test 4 in testing center
Mar 30-Apr 3	Chapters 20 & 21
Apr 6-10	Chapters 12 & 23
Apr 6-13	Test 5 in testing center
Apr 13-17	Chapters 13 & 24
Apr 20-24	Chapter 25
Apr 24-27	Test 6 in testing center
Apr 27-29	Chapter 14
Apr 30	Reading Day

The final exam will be given at the following time: Mon, May 4, 7:30-9:30 am

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