

General Microbiology- Biol 207

Syllabus (6 pages) -- Winter 2024

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General Education Course Content and Learning Outcomes: Biol-207 fulfills the D.1. (Science/Mathematics) general education requirement. In addition, this course is a requirement for some degree programs such as nursing, pre-pharmacy, pre-veterinary medicine, and others. Please check your degree program and with your advisor to make certain that this course fulfills your degree requirements. This course will help you attain the following general education goal and its corresponding outcomes:

“Use the scientific perspective to gain basic understanding of the natural and physical world and the relevance of science issues of personal and public importance”

More specifically, successful completion of this course provides you skills to

- *Demonstrate the understanding of the methods of scientific inquiry*
- *Explain fundamental principles or concept of microbiology*
- *Gain an understanding of bacteria, viruses and other microbes and their interaction with human lives*
- *Apply scientific principles to interpret and make predictions in the areas of human health and environment*
- *Explain how scientific principles relate to issues of personal and/or public importance*

Required:

- **E-text: Microbiology Fundamentals: A clinical approach by Cowan (with Bunn and Herzog). ISBN: 978-0-07-340235-2**
- **READ BEFORE PURCHASING TEXTBOOK**

The Biology Department at WKU has worked over the past year to develop a new model for textbook adoption. In order to save you some money, maximize your effective use of your textbook, increase learning and evaluate the best ways of teaching you difficult topics, we've entered into a partnership with McGraw-Hill publishers. By enrolling in this course, you agree to purchase the digital materials associated with this course. These materials include access to Connect, LearnSmart practice module and a downloadable e-copy of the textbook, which is you can own. If you want a printed copy (at a substantially reduced price), you must order that through the WKU Store during the first week of class. In order to make these savings available to you, WKU must institutionalize the purchasing process. As a result, about two weeks into the semester, you will be billed the cost of the materials for the course. The nice thing about this is that you will have access to all the course materials from day one, without doing a thing! You should note that for this course, you will be charged for the digital materials. **Do NOT buy a copy of the book from online or local vendors. ONLY the digital format will be used in this**

course. We anticipate that this approach to teaching will result in better learning and a more interesting classroom experience for you, and less stress on your spine!
 FOLLOW THE INSTRUCTIONS ON PAGE 5 TO REGISTER FOR “McGraw Hill Connect”

TENTATIVE SCHEDULES

Week/Date	Chapter title	Chapter Reading/Posted PPT	Assignments
STARTS Dec 11/2023	Intro to Microbes-----Building Blocks	Chapter 1; PPT presentation 1	SmartBook Assign 1
	Prokaryotic Structure----- Eukaryotic Structure	Chapter 3, 4; PPT presentation 2	SmartBook Assign 2
	Viral Structure-----Life Cycles	Chapter 5; PPT presentation 3	SmartBook Assign 3
	Microbial Nutrition-----Growth	Chapter 6; PPT presentation 4	SmartBook Assign 4
Dec 21-22, 2023	TERM EXAM-1	TERM EXAM-1	TERM EXAM-1
	Microbial Metabolism	Chapter 7; PPT presentation 5	SmartBook Assign 5
	Microbial Genetics-----Genetic Engineering	Chapter 8; PPT presentation 6	SmartBook Assign 6
	Physical and Chemical Control of Microbes	Chapter 9; PPT presentation 7	SmartBook Assign 7
Jan 3-4, 2024	Interaction-----Microbes and Humans	Chapter 11; PPT presentation 8	SmartBook Assign 8
	TERM EXAM-2	TERM EXAM-2	TERM EXAM-2
	Infectious Diseases----- Respiratory System	Chapter 19; PPT presentation 9	SmartBook Assign 9
	Gastrointestinal Diseases	Chapter 20; PPT presentation 10	SmartBook Assign 10
	Sexually Transmitted Diseases	Chapter 21 PPT presentation 11	SmartBook Assign 11
Jan 12, 2024	FINAL (Testing Center Exam)	FINAL	FINAL

EXAM POLICY

Exams/assignments are designed to test an understanding of the methods of scientific inquiry. You must check the Blackboard announcement regularly for all tests or exams.

1. SmartBook Assignment: This is the most widely used adaptive learning resource that is designed to maximize productivity and efficiency in learning. This suite spans the entire learning process – from course prep to concept mastery – and it creates high impact study sessions that focus students on the concepts that they need to learn. It is the part of the McGraw Hill digital package that Biology Department has introduced for introductory courses.

This Blackboard assignment will be available to students prior to reading presentation PPT slides, so that students may be familiar with the terms, definitions and important concepts in advance. You will be accessing these time-sensitive assignments through blackboard browser menu (Tests/Quizzes). This practice speeds up a student's learning and understanding of the PPT materials.

2. Term Exams: These are close-book, timed-tests. There will be two term exams, each carrying 100 points and including materials covered before. The questions will be multiple choices, True/False type. **They will also be available on Blackboard for a period of 24 hours, and can be taken from your personal computer during the designated period.** I may recommend you to take midterms from WKU computer facilities because of the uninterrupted internet and technical services provided by WKU (optional). You will be responsible for your internet connection if you choose to take from your personal computer.

3. Final: Final is a cumulative exam to be held in the last week. It includes all the materials covered in the class. It will carry a weight of 150 points. Questions will be multiple choices, True/False similar to midterms. **It will be a proctored exam conducted by WKU testing center. You will need to register, in advance, with the DELO Testing Office.**

To take final exam from the campus testing center, visit www.wku.edu/testing to register through TopNet. For instructions on how to set up your exam with a remote site (out of town), please go to www.wku.edu/testing and follow the instructions. For questions or concerns, as well as detailed guidelines and procedures about testing in a proctored environment, visit the [TDELO Testing Center](http://TDELO_Testing_Center) website, call at 270-745-5122 or 270-745-2106, or email at <mailto:delo.testing@wku.edu>. Make sure you reserve your place for the final exam no later than January 5.

4. *Makeup*: No makeup for Learn Smart assignments will be allowed in any circumstances, as they are available on your personal computer for many days. Makeup for the exams can be considered only on the presentation of valid documents (approved by WKU).

Grading Pattern

LearnSmart assignments	-----100
Midterm I (Chapters 1, 3, 4–6)	-----100
Midterm II (Chapters 7, 8, 9, 11)	-----100
FINAL EXAM- CUMULATIVE (Above all chapters including 19-21)	-----150

Grading scale: A= 90%; B=80%; C=70%; D=60% of a class total**Grade Computation:**

The official - Final grade (posted on TOPNET) will be calculated using the grading scale (given above) as follows: Earned Total Points divided by Exam Total Points X 100. All the earned points will be pooled from the Blackboard Gradebook for the percentage determination. The percentage points displayed by the Blackboard may not reflect an accurate final grade.

How to study and prepare for tests

- 1. Reading PPT slides: PPT presentations made on each covered chapter begin with Learning Outcomes for that specific chapter and then describe a subject with possible illustrations. These slides set a nice background for you to focus on learning, avoiding unnecessary details of the book chapter. If you read these presentations in conjunction with the description in a book chapter (for details), you will have better learning and comprehension.*
- 2. Embedded model questions: Carefully practice the embedded model questions in each presentation. Following that pattern, construct your own questions based on the topics described on the slides.*
- 3. Completion of prior LearnSmart practices and class activities will be immensely helpful for the study and preparation of exams.*
- 4. Each chapter of your digital book ends with a number of multiple choice and critical thinking questions that can be practiced for confidence building for the exam.*

Blackboard familiarity: Students are required to be familiar with blackboard functions as course materials and the tests/assignments (except final) will be administered through Blackboard. Visit <http://www.wku.edu/it/blackboard/> for help.

Expectations & Academic integrity

You are expected to read book chapters and PPT slides every day. I must recommend you to do Learn Smart assignments before a chapter reading. It will be then easier for you to understand Chapter/PPT materials. Chapters are voluminous, therefore, PPT slides will guide you what to focus. Materials covered on PPT slides will be mainly included in tests. You are not expected to seek help from any sources while taking midterms (midterms are close-book, timed-tests). Seeking internet help during these tests will be considered a violation of the academic integrity.

Blackboard Discussion: You are encouraged to join the Discussion forum floated by me. This is a Blackboard platform where you can post your questions with regard to materials or class dynamics. You are also encouraged to answer peer questions/concerns, if you can answer. I will answer your questions regularly.

Withdrawals: There are deadlines for the withdrawal. To withdraw from the course, adhere to the *Tuition and Fee Refund Policy of WKU*. You may not drop or withdraw from the class after the designated time. It is YOUR responsibility to drop the class. Do NOT assume that I will do this for you.

Disabilities

“Students with disabilities who require accommodations (academic adjustments and/or auxiliary aid or services) for this course must contact the Office for Student Disability Services, Room 445, Potter Hall. The OFSDS telephone number is (270) 745-5004 V/TDD/ Please DO NOT request accommodations

directly from the professor or instructor without a letter of accommodation from the Office for Student Disability Services”

How to Register for Connect:

1. **CLICK TOOLS on BLACKBOARD COURSE SITE MENU FOR McGraw Hills Higher Education link. THIS LINK TAKES YOU TO “GO TO MY CONNECT SECTION- Biol (207) - Winter 2024**
2. **Click on REGISTER NOW**
 - Student registration tutorials are available if you need help.
3. **Enter your email address**
4. **Your E. Mail is your access code**
5. **Next, you will need to fill out the registration form.**
 - Click on “Go To Connect Now” to complete your registration and continue to your instructor’s course.
6. **You are now at your instructor’s course.**
 - This is where you can access your assignments and study resources.
7. **To Return to Connect**
 - Go to the web address provided to you by your instructor. Again, you’ll want to bookmark it to save time.
 - Once on the Connect homepage, enter your email address and password.

Please visit the [Student Registration Tutorial](#) for additional registration information.

If you need help or have any questions about Connect, you can visit our Customer Experience support center:

- Customer Support
 - [Visit our 24-hour online support site.](#)
 - Canadian customers, please visit our dedicated [Canadian online support site.](#)
 - Call us at 800-331-5094
 - Sunday: 6pm to 11pm (Central Time)
 - Monday – Thursday: 8am to 11pm (Central Time)
 - Friday: 8am to 6pm (Central Time)
 - Online Tutorials: <http://www.connectstudentsuccess.com>

COURSE NAVIGATION: WHERE TO GET WHAT

- 1) READ SYLLABUS FOR COURSE TOPICS AND EXAM POLICY
- 2) READ COURSE SCHEDULES FOR COURSE TIME LINE
- 3) FIND PPT PRESENTATIONS UNDER Blackboard COURSE CONTENT
- 4) CLICK TESTS & QUIZZES FOR LEARNSMART ASSIGNMENTS & EXAMS
- 5) CHECK ANNOUNCEMENT FOR ASSIGNMENTS OR EXAMS
- 6) REGISTER WITH TESTING CENTERS IN ADVANCE FOR FINAL
- 7) CHECK INSTRUCTOR INFO FOR INSTRUCTOR'S OFFICE TIME
- 8) JOIN BLACKBOARD DISCUSSION FORUM FOR QUESTIONS/CONCERNS
- 9) Follow instructions to Register for McGraw Hill Digital Package/Connect as above.