

General Microbiology- Biol 207

Syllabus (7 pages) -- Summer2017

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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 12-month or 24-month (depending on the course) access to Connect, LearnSmart practice module and a downloadable e-copy of the textbook which is yours to keep, and the option to print a gray-scale copy of your textbook at greatly reduced cost. The cost per text, with all online materials, is \$75, about 35% to 50% the cost of purchasing a new textbook, even before purchasing online materials. If you want a printed copy, that's about \$25, but 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! If you choose to drop the course during the regular add-drop period, you won't be charged for the book. 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.** If you are enrolling in a two-semester course sequence (Biol 131-231 or Biol 120-122), you have full access to the digital materials online for 24 months, plenty of time to take both courses and even take a semester off in between without paying twice for the materials. 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 6 TO REGISTER FOR "McGraw Hill Connect"

TENTATIVE SCHEDULES

Week	Chapter title	Chapter Reading/Posted PPT
May 15 Module 1	Intro to Microbes-----Building Blocks	Chapter 1; PPT presentation 1
	Prokaryotic Structure----- Eukaryotic Structure	Chapter 3, 4; PPT presentation 2
	Viral Structure-----Life Cycles	Chapter 5; PPT presentation 3
	Microbial Nutrition-----Growth	Chapter 6; PPT presentation 4
	Microbial Metabolism	Chapter 7; PPT presentation 5
May 25	Midterm-1	
May 26 Module 2	Microbial Genetics-----Genetic Engineering	Chapter 8; PPT presentation 6
	Physical and Chemical Control of Microbes	Chapter 9; PPT presentation 7
	Interactions-----Microbes and Humans	Chapter 11; PPT presentation 8
	Host Defenses I	Chapter 12 PPT presentation 9
June 3	Midterm-2	

June 4 Module 3	Infectious Diseases----- Respiratory System Gastrointestinal Diseases Sexually Transmitted Diseases	Chapter 19; PPT presentation 10 Chapter 20; PPT presentation 11 Chapter 21; PPT presentation 12
June 8/9	FINAL	

HOW TO READ, PRACTICE AND LEARN (must read to score good points)

[A] **PowerPoint Presentations:** Course materials will be posted as PowerPoint presentations that are meticulously prepared. The presentation provides clearly defined learning goals, simple definitions/concepts, suitable examples, and beautiful illustrations. It will be easier for you to understand Chapter content with slide reading. Book Chapters are voluminous, therefore, PPT slides will also guide you what to focus. I recommend consulting E. book for detailed explanations. Materials covered on these slides will be mainly included in tests.

[B] **LearnSmart Practice:** LearnSmart is the most widely used interactive 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 (Connect) that you buy from WKU bookstore. *How to access chapters on LearnSmart? Go to Blackboard course site -> Tools -> McGraw Hill Higher Education -> Go to my Connect section -> Connect screen -> LIBRARY on top left -> LearnSmart -> Chapters*

I highly recommend you to do practice of the concerned chapter materials with LearnSmart suit after you read PPT slides. As soon as you open a chapter, you will see a pop up coming with varieties of questions. Get responding the questions, it will show your right or wrong attempts. It will teach you like a classroom teacher asking questions and then giving you the correct answers at the end. I believe this system is very useful for learning. *As I will not assign any of these as an assignment, so you will not lose any course points for your incorrect choices or abortive attempts.* You can practice until you develop mastery over the materials.

[C] **Practicing quizzes:** Connect digital package has a reservoir of chapter questions made in form of quizzes. *How to access these quizzes? Go to Blackboard course site -> Tools -> McGraw Hill Higher Education -> Go to my Connect section -> Connect screen -> LIBRARY on top left -> STUDENT RESOURCES – Choose a chapter from the drop down box -> Pay attention to the Pre and Post Test Quizzes. Post Test quizzes are particularly helpful. Many of these questions show up in the exams.*

I highly recommend practicing chapter quizzes. *You will not lose anything by your incorrect answers, as these are not included as part of the exam policy in this course.*

EXAM POLICY

Exams 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. **Midterms:** Midterms are close-book, timed-tests. There will be **two** Midterms, each carrying 100 points and *including materials covered before*. The questions will be multiple choices, True/False type. Midterms will be available on Blackboard *for a period of 24 hours*, and can be taken from your personal computer during the designated period of time. You will be responsible for the appropriate browser compatible to Blackboard and internet connection (check the requirement: <http://www.wku.edu/it/blackboard/>). Your grade will not be entered after the due date.
2. **Final:** Final is a comprehensive exam conducted by WKU/DELO testing centers on the scheduled date. It includes all the materials covered in the class (approximately, an assortment of 60% questions from previous chapters and 40% from chapters afterwards). It will carry a weight of 100 points. Questions will be multiple choices, True/False similar to midterms. Like midterms, it will also be posted on Blackboard (Tests/Quizzes) and can be taken from personal computer.
3. You will need to register, in advance, with the DELO Testing Office for your final exam. You will receive a notification from WKU/DELO office in this regard. Alternatively, you may visit <http://www.wku.edu/reachu/testing%20center/topnet.htm> to register via TopNet, when you want to take final exam from the campus testing center. For instructions on how to set up your exam with a remote site (out of town, anywhere in US), please go to <http://www.wku.edu/reachu/testing%20center/ExamInfoDistantSite.htm> 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://www.wku.edu/reachu/testing%20center/ExamInfoDistantSite.htm) website, call at 270-745-5122 or 270-745-2106, or email at <mailto:delo.testing@wku.edu>. Make sure to reserve your place early for the final exam.
4. **Makeup:** No makeup for missed tests will be allowed, as they are available on your personal computer for long hours. Make up for final can be considered only under University-approved conditions.

Grading Pattern

Midterm I (Chapters 1, 3, 4–7)	-----100
Midterm II (Chapters 8, 9, 11, 12)	-----100
FINAL EXAM- COMPREHENSIVE (Above all chapters including 19-21)	-----100

Total Points	300
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Grading scale: A= 90%; B=80%; C=70%; D=60%

Grade Computation:

The official - Final grade that is posted on TOPNET will be calculated using the grading scale (given above) as follows: Earned Total Points divided by Exam Total Points (300) 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.

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 would recommend you to do Learn Smart & quiz practices following slide/book reading. 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. **Internet browsing during tests will freeze your screen. Beware of it!**

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”

Follow the Registration Instructions -----**NB: GO TO MY CONNECT SECTION-Biol (207) – Summer 2017**

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) - 2014 Winter"**
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) MUST READ SYLLABUS FOR COURSE TOPICS AND EXAM POLICY
- 2) CHECK syllabus FOR COURSE TIME LINE
- 3) FIND PPT PRESENTATIONS UNDER Blackboard COURSE CONTENT
- 4) CLICK TESTS & QUIZZES FOR MIDTERMS/FINAL
- 5) CHECK ANNOUNCEMENT FOR EXAMS
- 6) JOIN BLACKBOARD DISCUSSION FORUM FOR QUESTIONS/CONCERNS
- 7) Follow instructions to Register for McGraw Hill Digital Package/Connect as above.