2017 General Microbiology  
BIOS 350 Summer Semester  
Section 13932: 12:00 to 1:40 Lecture Center C 3

**Note:** The summer class is done in a hybrid / online format we only meet on campus on certain dates. See class schedule below.

### Faculty Information

a. Instructor: Sandra Gibbons  
b. Office: 3466 SES  
c. Office Hour: MWF 3466 SES by appointment only  
d. Office Phone: 312-996-0961 (do not leave a message if I do not answer please email instead)  
e. E-mail: Gibbons@uic.edu

### Course Identification

a. 3 credit hours  
b. Prerequisite: BIOS 100 (BIOS 101 is also recommended) or the equivalent; and credit or concurrent registration in either CHEM 130 or CHEM 232.  
c. Catalog description: Ultrastructure, genetics, molecular biology, physiology and metabolism of microorganisms; role of microorganisms in food, water, agriculture, biotechnology, infectious diseases, and immunobiology.

### Textbooks/Reading List

Required:  


Packback subscription. Go to packback.co/questions to register. The access code for our community is: 4E42C946-A682-7741-D89D-BDAE0CA7CF9D  
This package cannot be substituted with other materials.

**Students are required to have their materials on the first day of class and will not be granted extended time to complete assignments due to a failure to purchase materials in a timely fashion.**

### Course Goals:

a. The student shall demonstrate knowledge of common microbiological terms, facts and principles through exams, discussion, and written assignments.

b. The student shall demonstrate an understanding of the "scientific approach" by its application in class discussions, written responses to problems and interpretations of data presented during class.
Career Development Skills:

a. Follow instructions.
b. Organize notes and ideas for formal, semiformal, and informal presentation.
c. Estimate, apply, and solve problems involving fractions, decimals, percentages, and real numbers.
d. Check, edit, and revise for correct information, appropriate emphasis, grammar, spelling and punctuation.
e. Compile and maintain records, logs, notebooks, and other documents.
f. Access, navigate and use on-line services.
g. Utilize problem-solving skills.
h. Participate in team tasks.
i. Maintain openness to life-long learning.

Course End Competencies:

a. The student shall demonstrate competence in:
   1. the history, evolution, and ecology of microbial life,
   2. the ultrastructure of various microbes,
   3. the chemical and molecular basis of life,
   4. the relationship between microbial growth and control of microbial growth,
   5. epidemiology and the disease process,
   6. the innate and adaptive immune response,
   7. immune system hypersensitivity and immunodeficiency.

b. The student shall develop an appreciation of the use of science and the role of microbiology in everyday life.
STUDENT SUCCESS:
The following list includes methods you can use to improve your chances of success in the microbiology course you are taking this semester.

- Come to every on campus class.
- Complete all work on time.
- Read the textbook and complete the assignments
- Form a study partnership with a classmate or two.
- Use the student resources available at the study area of our Blackboard site.
- Search the web using key words and concepts from the readings.
- Make study flash cards and use them.
- Meet with myself or the TAs during office hours.
- View a video associated with a difficult objective topic.
- Ask questions in class, at packback, and through email.
- Study early and often, no cramming.

Course Websites

   and if you need to access modified mastering and blackboard is down use
   http://pearsonmylabandmastering.com/

   https://www.packback.co/questions

b. Please contact me if you need to be added to the blackboard course site. Please note that you must be registered for the course to be added to the web site.

c. Please check the course website or your UIC email often for important announcements.

Classroom Policies/Procedures:

a. **Student Conduct:**
   Each student is responsible for adhering to the Code of Student Conduct as stated in the college catalog. Students are expected to demonstrate mature and appropriate behavior when interacting with each other, with the professor, and with the teaching assistants. Any student being disruptive during class or during an office hour will be asked to leave.

**Notice of Copyright**
Materials in this course—unless otherwise indicated—are protected by United States copyright law [Title 17, U.S. Code]. Materials are presented in an educational context for personal use and study and should not be shared, distributed, or sold in print—or digitally—outside the course without permission.

As a student your ability to post or link to copyrighted material is also governed by United States copyright law. The law allows for students to post or link to copyrighted materials within the course environment when the materials are pertinent to course work. Instructors—or other staff of the institution—reserve the right to delete or disable your post or link if in their judgment it would involve violation of copyright law.
b. **Attendance:**
The on campus meetings are mandatory. During class meeting you will be using the learning catalytics (LC) system that is worth points toward your grade. If you cannot attend class due to a religious holiday, student athletic event, or professional school interview you must alert me one week before the event. I will require documentation. I will then provide you with an alternative assignment to make up the missing LC points from the date you missed. This alternative assignment is due the following class period. **Late registration, studying for another class, being stuck in traffic, etc. will not excuse missed assignments or LC. All late penalties will still apply to mastering assignments.**

c. **Withdrawal:**
A student who does not withdraw officially from a course may receive a grade of "F", depending on course progress or course attendance, which will become a part of the student’s permanent record. **July 14, 2017** is the last day to drop a course(s) offered by all colleges.

d. **Cheating and Plagiarism:**
Any student caught cheating on an exam, modified mastering microbiology assignment, or any other class assignment may be immediately dismissed from the course and given a final grade of "F" regardless of the student’s total points in the course. Failure to return your exam question booklet will be considered cheating and will result in a zero for the exam. **Writing your answers on the exam question booklet large enough for others to see will be considered cheating and will result in a zero for the exam.** Only registered students are able to take the exam. **Your UIC photo ID will be checked on exam dates.** You will be given an assigned seat to take your exam in so please take care to study the exam-seating chart that will be made available soon after the last day to add classes in the semester. Students who are not registered for the course and who attempt to take the exam will be considered in breach of academic integrity and dealt with accordingly.

e. **Cellular Phones and Computers:**
Students and college visitors may not use and must silence cell phones, pagers, and other communication devices in all instructional areas that include: all labs and classrooms during instructional sessions unless using the learning catalytics program. Continued disruption of the course will result in a cessation of the lecture and students will be required to learn the missed content on their own. Computers must be used for note taking and learning catalytics only.

f. **E-mail Policy:**
Due to the large number of students that I teach it is important that you follow this email policy or you many not receive an answer to your question. I will only read and respond to email send through your **UIC email** account. You must have your course and section number in the subject line of the email so that I know exactly which class you are in. You must have your full name as it appears in blackboard in your email message. Failure to follow this policy may lead to your email and questions being deleted and not answered. Additionally, do not expect and immediate reply to your email. The fastest way to get help with your questions / concerns is to attend office hour.

g. **Disability statement:**
Students with disabilities must inform the instructor of the need for accommodations. Those who require accommodations for access and participation in this course must be registered with the Disability Resource Center and present the instructor with their written accommodation request
before accommodations can be granted. Please contact ODS at 312/413-2183 (voice) or 312/413-0123 (TTY).

**Grading Policies / Procedures**

a. **Exams:**

There are four exams for the course worth 100 points each consisting of 50 multiple-choice questions. **There is no cumulative final exam for the course.** You are required to bring several sharpened number 2 pencils to each exam and are not allowed to leave the classroom once the exam begins. The date for each exam is posted in the course schedule at the end of the syllabus. Students who arrive late for an exam will **not** be given additional time to complete the exam. **Failure to fill in your name on the computer sheet properly may result in a 5-point deduction from your exam score.** This includes a failure to fill in the bubbles for your name properly. **Failure to sit in your assigned seat on exam day may result in a five-point deduction from your exam score.**

Exams cannot be made up nor can they be taken early. If I am contacted before the exam and the student has a valid emergency or reason for missing (car accident with police report turned in, hospitalization with documentation (not doctor’s note), death in the family with documentation, professional exam interview with documentation) I will average the three exams that you did complete and use that score to replace the missing exam. This can only be done one time; a second missing exam will be counted as a zero.

**Exams are taken twice.** The first fifty minutes of the class the exam is taken solo, no books or notes. Scantrons will be collected and during the second fifty minutes of the class you will take the exam again but as a group. You can work with anyone you want and you can use your book and notes. You cannot use any cell phones or any sources from the Internet.

b. **Homework**

There are four learning logs, four critical thinking assignments, and four clinical application assignments. They are due by 11:59pm on the dates indicated on the course schedule at the end of the syllabus. They will be turned in through blackboard and screened with the safe assign tool that can detect plagiarism. You must turn them in with a valid format that will allow them to be screened with safe assign. While a typed PDF will work hand-written and then scanned PDF files do not work. The format “pages” does not work either. These assignments are designed to help you think about course content to help you better prepare for the exam. By preparing quality answers in your own words you will demonstrate an understanding of the material. They are worth 5 points each. They are scored on the quality of your work. If you are late you will lose half credit. No assignments will be graded if they are more than one week late.

c. **Modified Mastering Microbiology Assignments**

There will be a modified mastering microbiology assignment for each of the sixteen chapters we cover in this class. They are designed to help you better understand the material that we will be working with as you prepare for the exams. You must complete them by 11:59pm on their due date as listed in the course schedule at the end of the syllabus. You get two attempts to answer the question correctly so consider the assignment as a tutorial and not a quiz.
The assignments must be completed by the due date and **late modified mastering assignments will be reduced by 10% per day and must be completed before the exam that covers the assignment.** All the questions for each assignment do not need to be completed at the same time, however this is not something that can easily be completed in a half hour so plan accordingly.

**If you have never used the modified mastering feature in another class and need help learning how to access and complete the assignments please contact the instructor for help as soon as possible.**

d. **Learning Catalytics and in-class Activities**

We will be using the learning catalytics system where you will work alone or in groups to complete questions pertaining to specific textbook chapters. You should bring your textbook to class to help you with completing these assignments. Students will need to bring their own Internet accessing device (smart phone, iPod, tablet, or laptop computer) to answer questions using the learning catalytics program. **The learning catalytics program access comes with your purchase of modified mastering access if you have the textbook or the etext.** Learning catalytics is worth points. Half of the score is obtained by answering correctly and half is participation.

Additionally students will work on a variety of worksheets and group activities to help them better understand course material.

e. **Packback questions / answers**

Participation is a requirement for this course, and the Packback Questions platform will be used for online discussion about class topics. Packback Questions is an online curiosity community where you can *curious*, and ask the BIG questions about how what we’re studying relates to life and the real world.

**5 points per week** will go towards your participation in the community. In order to receive these points, you must post **1 Question and 2 Answers per week relevant to our class subject matter** that week. Your grade is determined based on participation and your curiosity score. You must post one question and answer two other student’s questions each week. If your curiosity score is at least 100 points you earn a 3/5. If your score is at least 200 points you earn a 4/5. If your score is at least 250 points you earn a 5/5. The highest score you could earn is 300 points. Less than 100 points will earn you either a 0, 1, or 2 depending on how much participation you had for that week. Additionally, **I will develop three exam questions based on student’s questions / answers that appear in the PackBack Featured posts section.**

Each week starts on Monday at 12:00 am and ends on **Sunday with a 11:59 PM deadline** for submissions in your community each week. Each week is treated as an assignment and you must participate eight weeks - consistency is important for us to foster a great community for learning and curiosity. Additionally, there is no way to post and have something count late so make sure to complete your work each week or you will lose points. **Late registration or a failure to sign up for the PackBack community will not exempt you from PackBack posting requirements.**
To start posting on Packback Questions:

1. **Navigate to** Packback.co/Questions **and click “Register as a new student”**.
   
   Note: If you already have an account on Packback Books (our rental site) you can log in with your login credentials.

2. **Make sure to register with your UIC SCHOOL email address and real first name and last name, or I won’t be able to grade your participation and you won’t receive your participation points.**

Enter our class community’s access code into the “Join a new Community” module on your dashboard.

**Our Community access code: 4E42C946-A682-7741-D89D-BDAE0CA7CF9D**

3. **Follow the instructions on your screen to finish registration, and then click into our class Curiosity Community. You can make your first post by clicking the gold “Ask a Question” button**

   For a brief introduction to Packback Questions and why we are using it in class, watch this video: vimeo.com/packback/Welcome-to-Packback-Questions

**Grading Policy:**

Grade determination is based on the number of points earned compared to the maximum number of points possible which is 620 points. The breakdown of points is as follows:

- Unit Lecture exams 400 points total
- Learning Catalytics and Classroom Activities 40 points total
- Blackboard Learning Logs 20 points total
- Blackboard Critical Thinking 20 points total
- Blackboard Clinical Applications 20 points total
- Modified Mastering Microbiology assignments 80 points total
- Packback questions / answers 40 points

Determination of the final grade will be based on accumulation of total points. The following grading scale will be used:

- 90% or above of Points = A Final Grade
- 80% to 89.9% of Points = B Final Grade
- 70% to 79.9% of Points = C Final Grade
- 60% to 69.9% of Points = D Final Grade
- 59.9% of Points and below = F Final Grade.

The course will **not** be curved and grades are **NOT** negotiable.

**Incomplete:**

An incomplete grade will be given only in cases of documented prolonged illness or an accident/death in the family during the last few weeks of the semester that prevents a student from
completing their work. Students must have been making **satisfactory progress** (a C or higher) in the course prior to requesting an incomplete. A request for an incomplete must be made **before** the end of the semester. An incomplete grade **will not** be given due to missing exam or homework scores or to prevent a low grade.

**Course Schedule**

The course calendar with all due dates is found here. You will be advised of any changes made during the semester in class and through a blackboard announcement if they need to take place.

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Mastering Microbiology Homework</th>
<th>Blackboard Homework</th>
<th>Activity or Exam</th>
<th>Packback</th>
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</thead>
<tbody>
<tr>
<td>M Jun 12</td>
<td>Off campus</td>
<td>Chapter 1</td>
<td>Learning log</td>
<td></td>
<td>Week 1 starts</td>
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<td></td>
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<td>Chapter 2</td>
<td>Unit 1</td>
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<tr>
<td>W June 14</td>
<td>On campus lecture center C 3</td>
<td>Chapter 8</td>
<td>Unit 1 Critical Thinking</td>
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<td>Classroom Activities</td>
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<tr>
<td>F June 16</td>
<td>Off campus</td>
<td>Chapter 10</td>
<td>Unit 1 Clinical Applications</td>
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<tr>
<td>W June 21</td>
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<td>Chapter 12</td>
<td>Unit 2 Learning Log</td>
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<td>Exam 1</td>
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<td>Off campus</td>
<td>Chapter 3</td>
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<tr>
<td>M June 26</td>
<td>Off campus</td>
<td>Chapter 5</td>
<td>Unit 2 Critical Thinking</td>
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<td>Week 3 starts</td>
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<tr>
<td>W June 28</td>
<td>On campus lecture center C 3</td>
<td>Chapter 27</td>
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<td>Classroom Activities</td>
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<td>F June 30</td>
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<td>M July 3</td>
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<td>Week 4 starts</td>
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<td>W July 5</td>
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<td>F July 7</td>
<td>On campus lecture center C 3</td>
<td>Chapter 12</td>
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<td>Exam 2</td>
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<td>Date</td>
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