University of Illinois at Chicago
BIOS 350--General Microbiology
Syllabus

2016 General Microbiology
BIOS 350 Summer Semester
Section 13932: MWF 12:00 pm to 1:40 pm in SES 130 *
*The summer session is a hybrid / online course the only on campus meetings will be held each Wednesday*

Faculty Information

a. Instructor: Sandra Gibbons
b. Office: 3466 SES
c. Office Hour: W 10:30 am to 11:30 am in 3466 SES
d. Office Phone: 312-996-0961 (do not leave a message if I do not answer please email instead)
e. E-mail: Gibbonss@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:


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 class.
- Complete all work on time.
- Read the textbook and complete the guided reading 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 a biology tutor when available.
- View a video associated with a difficult objective topic.
- Ask questions in class and through email.
- Study early and often, no cramming.

**Course Website**

a. [http://uic.blackboard.com](http://uic.blackboard.com) and if you need to access modified mastering and blackboard is down use [http://pearsonmylabandmastering.com/](http://pearsonmylabandmastering.com/)

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.

b. **Attendance:**

The Wednesday meetings are mandatory and cannot be made up on any other date. Each 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 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 15, 2016** 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 numbers 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.

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, 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.

b. Guided Reading Assignments

There is a guided reading assignment that should be completed before our Wednesday meeting as you read each chapter. The completed guided reading assignments should be brought to our Wednesday class meeting, as you will be using them along with your textbook to answer questions in class.

c. Pre-Lecture Modified Mastering Microbiology Assignments

There will be a pre-lecture modified mastering microbiology assignment for each of the fourteen chapters we cover in this class. They are designed to help you better understand the material that we will be working with at our Wednesday class meetings. You must complete them before the Wednesday class meeting begins. You get three attempts to answer the question correctly so consider the assignment as a tutorial and not a quiz. Due dates are listed in the course schedule.

The assignments must be completed by the due date and late pre-lecture 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

There will be will 4 in class learning catalytics sessions and 14 self-paced out of class learning catalytics sessions where you will work alone or in groups to complete questions pertaining to specific textbook chapters. You should bring your completed guided reading assignments and textbook to class to help you with completing these assignments. Some assignments may be done on paper so bring something
to write with. Students will need to bring their own Internet accessing device (smart phone, iPod, tablet, or laptop computer) to answer questions using the learning catalytic program. The learning catalytic program access comes with your purchase of modified mastering access if you have the textbook or the etext. Learning catalytic is worth points. Half of the score is obtained by answering correctly and half is participation.

e. **Post-Lecture Modified Mastering Microbiology Assignments**

There will be 8 post-lecture modified mastering microbiology assignments associated with the chapters we will cover in this class. The due dates are listed in the course schedule. These are short practice exams over one or two chapters at a time. They are done through the modified mastering program, consist of 25 questions, are only able to be answered once, and are timed (50 minutes to complete). If you miss the deadline for the assignment you must contact me through email so that I can reopen it for you. If you miss the deadline and must complete the assignment late you will only earn 75% credit and you must complete it by the date of the exam the chapters are associated with. You must have access to a secure and trustworthy Internet connection as once the assignment is opened the timer starts counting down and cannot be stopped. This means once you open the assignment you must be prepared to complete it in one sitting. I will not reset the timer for any reason including natural disasters so please don't wait to the last minute to complete the assignment.

f. **Frontline Video Assignments**

There will be two Frontline Video Assignments. You will be required to view two Frontline documentaries and participate in a discussion through the blackboard website. You will need to post one original posting of at least 300 words in length with three resources to back up your views along with two peer responses giving your classmates substantial feedback on their postings. Each peer review must be at least 100 words in length. See the Frontline Video assignment area of blackboard for the link to the documentary and what the discussion topics for each video will be. The assignments must be completed by the due date and late Frontline video assignments will be reduced by 50% and must be completed within one week of the original due date or a zero will be given.

g. **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
- Pre-Lecture assignments 70 points total
- Learning catalytic assignments 40 points total
- Post-Lecture assignments 80 points total
- Frontline Video Discussion Assignments 30 points total
- Exams 300 points total

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.

h. **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>Guided Reading Assignment Blackboard</th>
<th>Pre-Lecture Assignment Modified Mastering</th>
<th>Learning Catalytics or Exam in 130 SES</th>
<th>Post-Lecture Assignment Modified Mastering</th>
<th>Frontline Video Assignment Blackboard</th>
</tr>
</thead>
<tbody>
<tr>
<td>M 6-13</td>
<td>Chapter 1, 2, &amp; 8</td>
<td>Chapter 1, 2, &amp; 8 due 12:00 pm (noon)</td>
<td>Self-Paced Learning Catalytics at Home</td>
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<tr>
<td>W 6-15</td>
<td>Chapter 1, 2, &amp; 8</td>
<td>Ch 1, 2 &amp; 8 due 12:00 pm (noon)</td>
<td>In Class Learning Catalytics Ch 1, 2, &amp; 8 12:00 pm to 1:40 pm room 130 SES</td>
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<tr>
<td>F 6-17</td>
<td>Chapter 1, 2, &amp; 8</td>
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<td>Self-Paced Learning Catalytics at Home</td>
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<tr>
<td>M 6-20</td>
<td>Chapter 1, 2, &amp; 8</td>
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<td>Self-Paced Learning Catalytics at Home</td>
<td>Chapter 1 &amp; 2 Chapter 8 due 11:59 pm</td>
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<tr>
<td>W 6-22</td>
<td>Chapter 3, 5, 27, &amp; 23</td>
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<td>Exam I 12:00 pm to 1:40 pm in 130 SES</td>
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<tr>
<td>F 6-24</td>
<td>Chapter 3, 5, 27, &amp; 23</td>
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<td>Self-Paced Learning Catalytics at Home</td>
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<td>Day</td>
<td>Chapter(s)</td>
<td>Activity</td>
<td>Notes</td>
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<td><strong>M 6-27</strong></td>
<td>Chapter 3, 5, 27, &amp; 23</td>
<td>Self-Paced Learning Catalytics at Home</td>
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<tr>
<td><strong>W 6-29</strong></td>
<td>Chapter 3, 5, 27, &amp; 23</td>
<td>In Class Learning Catalytics Ch 3, 5, 27 &amp; 23 12:00 pm to 1:40 pm room 130 SES</td>
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<tr>
<td><strong>F 7-1</strong></td>
<td>Chapter 3, 5, 27, &amp; 23</td>
<td>Self-Paced Learning Catalytics at Home</td>
<td>Chapter 3 &amp; 5 Chapter 27 &amp; 23 due 11:59 pm The Trouble with Antibiotics due 11:59 pm</td>
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<td><strong>M 7-4</strong></td>
<td>Independence Day</td>
<td>Holiday</td>
<td>No School</td>
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<tr>
<td><strong>W 7-6</strong></td>
<td>Chapter 24, 25, &amp; 28</td>
<td>Exam 2 12:00 pm to 1:40 pm in 130 SES</td>
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<td><strong>F 7-8</strong></td>
<td>Chapter 24, 25, &amp; 28</td>
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<td><strong>M 7-11</strong></td>
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<td><strong>W 7-13</strong></td>
<td>Chapter 24, 25, &amp; 28</td>
<td>In Class Learning Catalytics Ch 24, 25, &amp; 28 12:00 pm to 1:40 pm room 130 SES</td>
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<td><strong>F 7-15</strong></td>
<td>Chapter 24, 25, &amp; 28</td>
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<td><strong>M 7-18</strong></td>
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<td>Self-Paced Learning Catalytics at Home</td>
<td>Chapter 24 &amp; 25 Chapter 28 due 11:59 pm</td>
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<td><strong>W 7-20</strong></td>
<td>Chapter 29, 30, 31, &amp; 32</td>
<td>Exam 3 12:00 pm to 1:40 pm in 130 SES</td>
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<td><strong>F 7-22</strong></td>
<td>Chapter 29, 30, 31, &amp; 32</td>
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<td>Day</td>
<td>Chapters</td>
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<td>W 7-27</td>
<td>Chapter 29, 30, 31, &amp; 32</td>
<td>Ch 29, 30, 31, &amp; 32 due 12:00 pm (noon)</td>
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<tr>
<td>F 7-29</td>
<td>Chapter 29, 30, 31, &amp; 32</td>
<td>Self-Paced Learning Catalytics at Home</td>
<td>The Problem With Chicken due 11:59 pm</td>
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<td>M 8-1</td>
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<td>W 8-3</td>
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<td><strong>Exam 4</strong> 12:00 pm to 1:40 pm in 130 SES</td>
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