General Microbiology
3 Credit Hours

Prerequisites: BIOS 100 (BIOS 101 is also recommended) or the equivalent; and credit or concurrent registration in either CHEM 130 or CHEM 232.

Semester: Summer 2018

<table>
<thead>
<tr>
<th>Sandra Gibbons</th>
<th>13932</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office location: 3466 SES</td>
<td>T TH 10:00 am to 12:30 pm</td>
</tr>
<tr>
<td>312-996-0961 (email if I don’t answer)</td>
<td>Room 317 Burnham Hall (BH)</td>
</tr>
<tr>
<td><a href="mailto:gibbonss@uic.edu">gibbonss@uic.edu</a></td>
<td>Office Hour: T 12:30 pm to 1:30 pm in 3466 SES</td>
</tr>
</tbody>
</table>

| TA: Rima Rebiai (rrebia2@uic.edu) | Office hour: TH 2:30 pm to 3:30 pm in Science Learning Center (SES) |

Course websites:
http://uic.blackboard.com
https://openstax.org/details/books/microbiology
http://packback.co

Course Description:
Ultrastructure, genetics, molecular biology, physiology and metabolism of microorganisms; role of microorganisms in food, water, agriculture, biotechnology, infectious diseases, and immunobiology.

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.

Course Objectives:
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.

COURSE MATERIALS

Required Texts

Textbook: Microbiology by Parker, Schneegurt, Thi Tu, Forster, and Lister. 2016 OpenStax.
The textbook can be located at: https://openstax.org/details/books/microbiology

Packback subscription. Go to packback.co/questions to register. The access code for our community is: FA23BE35-8810-12C0-18F2-E19263AF20BE

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 POLICIES

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.

Attendance Policy

Class meetings are mandatory. Students who attend lecture learn the material better and score higher on the exams. Lecture capture is for review purposes only and should not be used to replace attending lecture. Students are expected to arrive on time and stay for the entire class period.
Policy for Missed or Late Work

Exams:
Unit 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 two 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. **Students who miss without proper documentation will have a 5% penalty applied to the average score used to replace the one missed exam.**

Packback Questions / Answers:
Packback questions / answers **cannot be done early or late** due to how the curiosity score points are calculated. You are allowed to complete two extra posts beyond the required 4 questions and 2 answers in order to help increase your overall curiosity score. Low quality additional posts beyond the additional 2 will lead to a deduction of points (one per extra post) from your score.

- Unit 1 posting date range: Start June 19th – End July 3rd
- Unit 2 posting date range: Start July 5th – End July 19th
- Unit 3 posting date range: Start July 24th – End August 7th

Communicating With the Instructor

This course uses a “three before me” policy in regards to student to faculty communications. When questions arise during the course of this class, please remember to check these three sources for an answer before asking me to reply to your individual questions:

1. Course syllabus
2. Announcements in Blackboard
3. The "Clarification Center” discussion board in Blackboard

This policy will assist you in identifying answers before I can get back to you and it also helps me from answering similar questions or concerns multiple times.

If you cannot find an answer to your question, please first post your question to the “Clarification Center” discussion board. Here your question can be answered to the benefit of all students by either your fellow students who know the answer to your question or the instructor / teaching assistant. You are encouraged to answer questions from other students in the discussion forum in order to help provide timely assistance.
If you have questions of a personal nature such as relating a personal emergency, questioning a grade on an assignment, or something else that needs to be communicated privately, you are welcome to contact me via email. I will usually respond to email and phone messages from **8am to 5pm on weekdays**, please allow **24 hours for me to respond**.

Due to the large number of students and classes that I teach it is important that you follow my email policy or you may not receive an answer to your question. I will only read and respond to email sent 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 not being answered.

**Student Courtesy Policy**
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. UIC campus police will be called if needed. **Excessive talking during lecture will result in the cessation of lecture and students will be responsible for learning the material for that day on their own.**

**Academic Integrity Policy**
Any student caught cheating on an exam or packback 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 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.

As an academic community, UIC is committed to providing an environment in which research, learning, and scholarship can flourish and in which all endeavors are guided by academic and professional integrity. All members of the campus community—students, staff, faculty, and administrators—share the responsibility of insuring that these standards are upheld so that such an environment exists. Instances of academic misconduct by students will be handled pursuant to the Student Disciplinary Policy: **[http://dos.uic.edu/docs/Student%20Disciplinary%20Policy.pdf](http://dos.uic.edu/docs/Student%20Disciplinary%20Policy.pdf)**
RELIGIOUS HOLIDAYS

Students who wish to observe their religious holidays shall notify the faculty member by the tenth day of the semester of the date when they will be absent unless the religious holiday is observed on or before the tenth day of the semester. In such cases, the student shall notify the faculty member at least five days in advance of the date when he/she will be absent. The faculty member shall make every reasonable effort to honor the request, not penalize the student for missing the class, and if an assignment is due during the absence, give the student a twenty-four hour extension. If an exam is due during the absence, all other exam scores will be averaged to replace the missing exam score. If the student feels aggrieved, he/she may request remedy through the campus grievance procedure after discussion of the situation further with the faculty member first.

http://oae.uic.edu/docs/ReligiousHolidaysFY20152017.pdf

ACADEMIC DEADLINES

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 8, 2018 is the last day to drop a course(s) offered by all colleges.

You can link to the UIC academic calendar below:
http://grad.uic.edu/cms/?pid=1000222

Disability Accommodation

The University of Illinois at Chicago is committed to maintaining a barrier-free environment so that students with disabilities can fully access programs, courses, services, and activities at UIC. Students with disabilities who require accommodations for access to and/or participation in this course are welcome, but must be registered with the Disability Resource Center (DRC). Students with disability accommodations must present the instructor with the letter outlining possible accommodations before any accommodation will be granted. You may contact DRC at 312-413-2183 (v) or 773-649-4535 (VP/Relay) and consult the following:

http://drc.uic.edu/guide-to-accommodations.

Students receiving accommodations and in need of extended exam time or a quiet exam room are required to schedule to take their exam in the disability resource center. The instructor and teaching assistants have no way to grant extend time or quiet room testing. It is strongly suggested to schedule your exam request early otherwise you may need to take the exam in the classroom without extended time if the DRC capacity is filled.
**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. Continued disruption of the course will result in a cessation of the class and students will be required to learn the missed content on their own. Computers must be used for note taking only.

**COURSE REQUIREMENTS, METHODS OF EVALUATION, & GRADING POLICIES**

**Unit Exams:**
There are three exams for the course worth 100 points each consisting of multiple-choice questions. 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 will result in a 5-point deduction from your exam score. Failure to sit in your assigned seat on the exam day may result in a five-point deduction from your exam score.**

**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.

**15 points per unit** will go towards your participation in the community. In order to receive these points, you must post **4 Questions and 2 Answers per unit relevant to our class subject matter** in that unit. Your grade is also determined based on participation and your curiosity score.

The highest curiosity score you could earn for posting 4 questions and 2 answers is 600 points. You will be scored based on the following curiosity scale as well as completing the of 4 questions and 2 answers per unit:

- 600- 540 curiosity points = 15/15
- 539- 480 curiosity points = 13/15
- 479- 420 curiosity points = 11/15
- 419- 360 curiosity points = 9/15
- Below 360 curiosity points your score will be based on how many questions and answers you did but will not be higher than 6.
You are allowed to complete two extra posts beyond the required 4 questions and 2 answers in order to help increase your overall curiosity score. Low quality additional posts beyond the additional 2 will lead to a deduction of points from your score (one point off per extra post). Additionally, you will lose points if you do not have the 4 questions and 2 post no matter what your curiosity score is (one point off for each missing post).

Unit 1 posting date range: Start June 19th – End July 3rd
Unit 2 posting date range: Start July 5th – End July 19th
Unit 3 posting date range: Start July 24th – End August 7th

Evaluation Criteria
Grading Policy:
Grade determination is based on the number of points earned compared to the maximum number of points possible which is 345 points. The breakdown of points is as follows:

Unit lecture exams: 300 points
Packback: 45 points

The following grading scale will be used:
• At least 90% of Total Points = A Final Grade (Student demonstrates achievement of learning objectives at a level of outstanding mastery)
• 80% of Total Points = B Final Grade (Student demonstrates achievement of learning objectives at a level beyond mere minimum competency)
• 70% of Total Points = C Final Grade (Student demonstrates achievement of learning objectives at a level of minimum competency)
• 60% of Total Points = D Final Grade (Student demonstrates achievement of learning objectives at a level below minimum competency but sufficient to receive credit)
• Below 59% of Total Points = F Final Grade (Student demonstrates insufficient achievement of learning objectives to receive credit)

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

Midterm Grades
Exam scores are the best indicator of performance in the course. I will not calculate midterm or final grades for students. If you need advising please see the resources in the link below.
http://tigger.uic.edu/depts/oaa/advising/student_midterm.html
Final Exam
There is no cumulative final exam given. Pathogens will be covered on all unit exams.

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.

GRIEVANCE PROCEDURES
UIC is committed to the most fundamental principles of academic freedom, equality of opportunity, and human dignity involving students and employees. Freedom from discrimination is a foundation for all decision making at UIC. Students are encouraged to study the University’s “Nondiscrimination Statement”. Students are also urged to read the document “Public Formal Grievance Procedures”. Information on these policies and procedures is available on the University web pages of the Office of Access and Equity: [http://oae.uic.edu/](http://oae.uic.edu/).

**CALENDAR OF MAJOR COURSE EVENTS AND DEADLINES**

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<thead>
<tr>
<th>Month/Day/Date</th>
<th>Topic</th>
<th>Assignment</th>
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| June 19 T     | Introduction to BIO 350  
Chapter 1: An Invisible World  
Chapter 2: How We See the Invisible World | Unit 1 Packback Posting begins |
| June 21 TH    | Chapter 3: The cell | |
| June 26 T     | Chapter 6: Acellular Pathogens  
Chapter 21: Skin and Eye Infections | |
| June 28 TH    | Chapter 21: Skin and Eye Infections  
Chapter 22: Respiratory System Infections  
Chapter 23: Urogenital System Infections | |
| July 3 T      | EXAM 1  
Unit 1 Packback Posting ends | |
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<thead>
<tr>
<th>Date</th>
<th>Chapters and Topics</th>
<th>Notes</th>
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<tr>
<td>July 5 TH</td>
<td>Chapter 9: Microbial Growth</td>
<td>Unit 2 Packback Posting</td>
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<td>July 12 T</td>
<td>Chapter 13: Control of Microbial Growth, Chapter 14: Antimicrobial Drugs</td>
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<td>July 14 TH</td>
<td>Chapter 24: Digestive System Infections</td>
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<td>July 17 T</td>
<td>Chapter 25: Circulatory and Lymphatic System Infections, Chapter 26: Nervous System Infections</td>
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<tr>
<td>July 19 TH</td>
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<td>EXAM 2</td>
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<td>Unit 2 Packback Posting</td>
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<tr>
<td>July 24 T</td>
<td>Chapter 15: Microbial Mechanisms of Pathogenicity</td>
<td>Unit 3 Packback posting</td>
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<tr>
<td>July 26 TH</td>
<td>Chapter 16: Disease and Epidemiology, Chapter 17: Innate Nonspecific Host Defenses</td>
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<tr>
<td>July 31 T</td>
<td>Chapter 17: Innate Nonspecific Host Defenses, Chapter 18: Adaptive Specific Host Defenses</td>
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<tr>
<td>August 2 TH</td>
<td>Chapter 18: Adaptive Specific Host Defenses, Chapter 19: Diseases of the Immune System</td>
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<td>August 7 T</td>
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<td>EXAM 3</td>
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<td>Unit 3 Packback posting</td>
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**UIC RESOURCES**

If you find yourself having difficulty with the course material or any other difficulties in your student life, don’t hesitate to ask for help! Come to me, or if it is about an issue beyond this class, please contact your college advisors, or get help from any number of other support services on campus. You can get a referral to the right place, or help on the spot, from concerned advisor in the Undergraduate Success Center (USC) at usc@uic.edu.
The Writing Center, located in Grant Hall 105, offers one-on-one consultation with student writers who need help developing ideas, or need advice, guidance or additional instruction on any aspects of writing in any class. Tutors are prepared to spend fifty minutes per appointment, and there is no limit to the number of tutoring sessions you can have each semester. Make an appointment and be on time! Bring the paper on which you’re working, as well as any related drafts or notes, and information about the assignment. For an appointment, call the Writing Center at (312) 413-2206, or stop by room 105 of Grant Hall. Visit the Writing Center website at www.uic.edu/depts/engl/writing for more information.

The Science and Learning Center, located in the Science and Engineering South Building (SES) 201B, is a meeting place for students in Biological Sciences, Chemistry, Earth and Environmental Sciences, and Physics. At the SLC, students can meet with graduate teaching assistants for tutoring in 100-level courses, arrange informal group study sessions with other students, or meet up with friends to attend one of the workshops, seminars, or other activities sponsored by the SLC during the semester. Visit the website at http://www.uic.edu/depts/bios/facilities/science_learning_center.shtml

The UIC Library
The library is located both on east and west campus, provides access to resources, study rooms, and research support both online via chat and in person. At Daley Library on the east side of campus, stop by the reference desk in the IDEA Commons, or make an appointment for research help on either side of campus. Learn more about library policies at http://library.uic.edu/. To find research materials in specific subject areas view the Research Guides at http://researchguides.uic.edu/.

Public Computer Labs
These labs are available throughout campus where you may write and/or print out your work. For a list of labs and the hours they’re open, go to www.accc.uic.edu/pclabs. NOTE: Do not wait until the last minute to print out papers. Sometimes labs have long lines of students waiting for access.

The Academic Center for Excellence can help if you feel you need more individualized instruction in reading and/or writing, study skills, time management, etc. Phone: (312) 413-0031.

Counseling Services are available for all UIC students. You may seek free and confidential services from the Counseling Center www.counseling.uic.edu. The Counseling Center is located in the Student Services Building; you may contact them at (312) 996-3490. In addition to offering counseling services, the Counseling Center also operates the InTouch Crisis Hotline from 6:00 p.m.-10:30 p.m. They offer support and referrals to callers, as well as telephone crisis interventions; please call (312) 996-5535.
Campus Advocacy Network

Under the Title IX law you have the right to an education that is free from any form of gender-based violence and discrimination. Crimes of sexual assault, domestic violence, sexual harassment, and stalking are against the law and can be prevented. For more information or for confidential victim-services and advocacy contact UIC’s Campus Advocacy Network at 312-413-1025 or visit http://can.uic.edu/. To make a report to UIC’s Title IX office, contact Rebecca Gordon, EdD at TitleIX@uic.edu or (312) 996-5657.

CAMPUS SECURITY

As a UIC student, you've chosen to live in one of the nation's largest cities. But, as at any university, crime is a reality. At UIC, we are strongly committed to our public safety programs, and we encourage students to be proactive in learning what programs and services are available in case of an emergency. You are DISCOURAGED from staying in university buildings alone, including lab rooms, after hours and are ENCOURAGED to use the POLICE/STUDENT patrol escort if you are uncomfortable traveling anywhere on campus. You may request an escort to accompany you to your campus destination on foot by calling 312-996-2830, and between 11:00 pm and 7:00 am you can dial the Red Car service (312-996-6800) if you are alone and need to leave the building. Through Red Car, the university has established a safe evening transportation service for university employees, students, visitors, and other authorized individuals. The car travels between university facilities within the following general boundaries: Clinton Street on the east; Western Avenue on the west; Jackson Boulevard on the north; and, 16th on the south. This service is available only to individuals possessing a valid UIC i-card. The i-card is required to ensure the safety of the driver and other passengers. Consult the following for more information: http://www.uic.edu/uic/studentlife/campus/safety.shtml

Also you can subscribe your cell phone to receive text message alerts. An immediate SMS text alert will be sent in case of a serious crime in progress, a weather emergency, or other urgent situation. (http://sms.accc.uic.edu). Finally, by dialing 5-5555 from a campus phone, you can summon Police or Fire for any on-campus emergency. You may also set up the complete number, 1-312-355-5555, on speed-dial on your cell phone. For more information contact: http://www.uic.edu/uic/studentlife/campus/emergency-information.shtml

Emergency Response Recommendations:
The emergency response guide can be found at the following website: https://www.ready.uic.edu/emergency_guide It is encouraged that you to review this website and guide as well as the campus building floor plans website within the first 10 days of class. https://fimweb.fim.uic.edu/Home.aspx