Microbiology Bio 231.00
Spring 2021 Lecture Syllabus (Please refer to Dr. Krampis' overall recitation syllabus for detailed expectations for the recitation portion of this course.

Lecture Instructor:
Janette Gomos Klein, Ph.D. (Biological Sciences)
jkle@hunter.cuny.edu
course content questions: please post on Bb
individual office hours appoints: via Navigate

Course Description:
Biol 231 is a 3 hour (2 hour lecture/1 hour bioinformatics meeting per week) **3 credit** course. Topics include scope, historical aspects, taxonomy, and survey of the microbial world. The course also includes a survey of genetics, viruses, epidemiology, immunity, and microbial disease; plus, an introduction to bioinformatics and the microbiome. Accepted for credit toward Biology Major I. Prerequisites: BIOL 102; CHEM102.

Sp2021 will be exclusively taught on-line. You MUST have a computer or tablet with internet access AND be able to use Bb, including Bb Collaborate, VoiceThread, and MasteringMicrobiology (must be purchased) to successfully complete this course. The course is rigorous, often covering ~two chapters per week. You will have weekly assignments. You are responsible for the entire contents within each chapter that is on the syllabus. Homework is assigned for WEEKLY completion on MasteringMicrobiology. You will have bioinformatics homework assigned outside of MasteringMicrobiology.

Lecture: Video will be posted weekly as part of Zoom meeting. Voicethread (VT) of pertinent slides will be posted for Q&A. Academic questions posted on the VT will be reviewed and addressed on Bb Q&A. The videos/VT may not cover all the content in each chapter but you are still responsible for the material in the chapter. The class will also meet synchronously for Q&A weekly from 9:10-10am and lecture review 10am-11am via Zoom link:

Topic: BIOL230/231 lecture synchronous class (Wed 9am-10am Q&A; 11am-noon content review)
10-11am (recorded)

Join Zoom Meeting
https://huntercollege.zoom.us/j/88254155036
Meeting ID: 882 5415 5036
One tap mobile
+19294362866,,88254155036# US (New York)

Recitation: Will meet separately asynchronously or synchronously each week. Please refer to Dr. Krampis for additional information.

The Lecture Zoom will be recorded from 10-11am on Wed and attendance is not mandatory. From 9:10am-10am, there will be group office hours and Q&A on the same Zoom link above. We strongly encourage you to attend and participate actively. Letters of Recommendation or Evaluation Letters will not be submitted for students who are not making every effort to participate in class and on VT and meet with their instructors during the semester. *Students who participate in this class with their camera on or use a profile image are agreeing to have their video or image recorded solely for the purpose of creating a record for students enrolled in the class to refer to, including those enrolled students who are unable to attend live. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are

not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live.

Course Coordinator and Lecture Instructor:

Janette Gomos Klein, Ph.D.
jkle@hunter.cuny.edu
– if emailing, please provide course name (ex. BIOL231) as part of your subject heading.

Office Hours: By appointment on Navigate (virtual Zoom link will be sent as confirmation).

Please post class and course related questions on Bb in the Discussion Board area.

Bb technical concerns: studenthelpdesk@hunter.cuny.edu

MasteringMicrobiology technical support:
https://mlm.pearson.com/northamerica/masteringmicrobiology/students/support/index.html

Required Texts:

*REQUIRED- Bb ready Modified MasteringMicrobiology- you can enter an already purchased code through the Bb course site **or** buy it when you first enter MasteringMicrobiology through Bb site.

Tortora Funke Chase. Modified MasteringMicrobiology with eText 13th Ed (for Bb use). Pearson. ISBN: **9780134707310**

The etext and MasteringMicrobiology are included in the ISBN below but it does NOT include paper book. Only the ISBNs listed here will work on Bb for this course. You MUST buy this version with eText. ISBN: 9780134707310 (with eText) **OR** purchase ISBN 978013470797 without eText. If you purchase without eText, it is your responsibility to read/review all chapters assigned.

Exams and Grading:

You will be graded on a score of 500 points. 200 recitation, 210 lecture, 90+ points homework/participation (on MasteringMicrobiology). Exams are NOT meant to be open book- as such they will be strictly timed. There will be THREE timed lecture exams at 35 points each (no more than 30-40 minutes). You have one week in which you can take each exam. However, you can only take the exam ONCE and it will be timed. I strongly suggest that you make arrangements to take the exam in an environment where you will be able to successfully complete the exam. There are NO makeup exams for Exams 1,2, or 3. Exam questions come from a large pool that is randomized per student. The final is comprehensive and is worth 105 points. This final exam will consist of two parts- both timed. Make-ups for final will only be given in cases of documented emergencies for students with at least a C average from **ALL** other lecture exams. For students that take all 4 exams, a higher final exam grade will replace lower grades for Exams 1, 2, and 3. All students are expected to take all four lecture exams (Exams 1, 2, 3 and Final Exam). Student will receive lecture exam grades via Blackboard/MasteringMicrobiology posted within 10 days following the exam.

The recitation component is composed of a total of 200 points. Point breakdown will be explained to you in your first recitation. Participation and Attendance is mandatory for success in the recitation section of the course. Collaborative groupwork and active participation is expected. You must be on time and plan to stay for the entire class. Tardiness or lack of attendance will significantly impact your grade. Makeup work will only be provided in cases of documentable excused absence.

Final Grades are determined using the Hunter College grading scale:

A+	4.0	97.5 – 100%
A	4.0	92.5 – 97.4%
A-	3.7	90.0 – 92.4%
B+	3.3	87.5 – 89.9%
B	3.0	82.5 – 87.4%
B-	2.7	80.0 – 82.4%
C+	2.3	77.5 – 79.9%
C	2.0	70.0 – 77.4%
D	1.0	60.0 – 69.9%
F	0	0.0 – 59.9%

Lecture Grading:

90 pts (6.5pts x 16)	Homework assignments - weekly on MasteringMicro (includes + 14 points extra credit)
35points	Exam 1 (may include HW assignment questions)
35points	Exam 2 (may include HW assignment questions)
35points	Exam 3 (may include HW assignment questions)
105 points	Final Comprehensive Exam (may include HW assignment questions) -2 parts: Part 1 (35 questions on new material) **+** Part 2 (70 questions from Chapters 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13) - (may include hmwk assignment questions)

Recitation Grading: 200 points. Please refer to the syllabus provided by Dr. Krampis

Required Reading and Materials:

You are responsible for the material in the text and Modified MasteringMicrobiology that correspond to the chapters listed in the syllabus. **You are responsible for checking BlackBoard (BB) regularly and MasteringMicrobiology regularly.** Instructor will post review material on Blackboard via Voicethread. Bb will be utilized to answer questions, post updates, and post additional lecture material (from text). Exams will be on MasteringMicrobiology. Lecture time is limited and may not cover all the material that will be tested on. You will still be responsible for material that is not covered in lecture but is on the syllabus. If you have specific questions on content, please post a question on Bb.

Modified MasteringMicrobiology is an eText and learning tool for the course. **It will be integrated into Bb meaning you must login through our course in Bb**. At least 90 points and the lecture exams for this course are utilized in Modified MasteringMicrobiology. The student is responsible for registering with their **full registered Hunter College name** at the start of the semester. This is the only way that we will be able to identify you so be sure that your name matches your CUNY Hunter College registered name. Each assignment is worth an assigned point value for a total of at least 90 points. <u>There is absolutely no make-ups/no credit for missed or tardy submissions. Homework is assigned weekly!</u>

Suggested Reading:
Your Modified MasteringMicrobiology comes with an eText and very helpful animations and self-test/study assessment opportunities. Reviewing these materials is a good way to help reinforce course content and study for the course.

Academic Integrity/Cheating/ Plagarism:

A strict code of academic honesty will be followed. Any sign of cheating or plagiarism will result in an automatic ZERO for that test, quiz, or assignment- no exceptions. Cheating and plagiarism include copying from another student's work (current or former) or "copy and pasting" information from the internet. Instructors may use tools such as TurnItIn to verify plagiarism. USE YOUR OWN WORDS TO DESCRIBE SOMETHING!

Students are NOT allowed to take pictures or transcribe any part of the exam to share with other students, post/discuss on social media or use on the internet. Violators of this rule will be subject to a minimum of a ZERO grade on the relevant exam PLUS pursued as cases of academic dishonesty.

"Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining an unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures."

Campus Policy in Compliance with the American Disabilities Act

All students with disabilities and medical conditions are encouraged to register with the Office of AccessABILITY for assistance and accommodation. For information and an appointment contact the Office of AccessABILITY located in RoomE1214, or call 212-772-4857/or VP646-755- 3129

Additional Information:

Lecture work will be assigned by Monday at 9am and any graded work will be due by Sun at 11:59pm. Because every assignment has at least one week to complete, late work will NOT be accepted.

Each week, there will be a recorded lecture meeting. Attendance is not mandatory but encouraged.

Topic: BIOL230/BIOL231- Microbiology MeetUps (Wed 9:10-10am Q&A-optional; 10am-11am Content Review (recorded)

Join Zoom Meeting
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One tap mobile
+19294362866,,88254155036# US (New York)

Lecture	Date	Topic (subject to change at instructor's discretion)	Chapter(s)	MasteringMicrobiology 20- 45min graded
Week 1	Jan 26- Feb 7	Overview; Introduction	1, 3 (review 2)	1, 3 Due Feb 7 at 11:59pm
Week 2	Feb 8- Feb14	Prokaryotes; Eukaryotes; Metabolism	4, 5	4, 5 Due Feb 14 at 11:59pm
Week 3	Feb 15- Feb 21	**EXAM 1** 35 questions	1, 3, 4, 5	Exam 1 Due Feb 21 at 11:59pm
Week 4	Feb 22- Feb 28	Microbial Growth and Control	6	6 Due Feb 28 at 11:59pm
Week 5	Mar 1-Mar 7	Microbial Genetics and Biotechnology, Foundation Figure in Chapter 2	7, 8	7 Due Mar 7 at 11:59pm
Week 6	Mar 8 -Mar 14	Microbial Genetics and Biotechnology	8, 9	8, 9 Due Mar 14 at 11:59pm
Week 7	Mar 15-Mar 21	**EXAM 2** 35 questions; 30min	6, 7, 8, 9	Exam 2 *Due Mar21 at 11:59pm
Week 8	Mar 22-Mar 26	Review Classification; Key Characteristics/Classification: Prokaryotes	10	10 Due Mar 26 at 11:59pm
	SPRING BREAK Mar 27 - Apr 4	SPRING BREAK	SPRING BREAK	SPRING BREAK
Week 9	Apr 5- Apr 11	Key Characteristics / Classification: Fungi, Algae, Protozoa	11, 12	11, 12 Due Apr 11 at 11:59pm
Week 10	Apr 12- Apr 18	Key Characteristics / Classification: Viruses, viroids.	13	13 Due Apr 18 at 11:59pm
Week 11	Apr 19- Apr 25	**EXAM 3** 35 questions	10, 11, 12, 13	Exam 3 Due Apr 25 at 11:59pm
Week 12	Apr 26 – May 2	Disease and Epidemiology Microbial Mechanisms of Pathogenicity	14/15	14, 15 Due May 2 at 11:59pm
Week 13	May 3 – May 9	Immunity: Introduction	16	16 Due May 9 at 11:59pm
Week 14	May 10-16	Immunity: Innate and Adaptive	17	17 Due May 16 at 11:59pm
FINAL	May 19 – May 25	30min + 75 min **FINAL EXAM** comprehensive and TWO parts 35 questions- Ch14, 15, 16, 17 70 questions- Ch 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17	FINAL EXAM Due May 25 at 11:59pm

*Responsible for understanding chemistry in Chapters 2, 5, 8 and Appendix A

*Syllabus and recitation Calendar are subject to change