MCB 2010C: Microbiology
Poinciana Campus
Course Syllabus and Classroom Policies
Spring 2020 – Full Term

INSTRUCTOR: E. Laurent
OFFICE: PC 1-313B
PHONE: 407-582-6135
EMAIL: elaurent1@valenciacollege.edu
CLASS TIME: Tues/Thurs 7:00 – 9:45 am
CLASSROOM: PC 1 – 326 (lab)
CRN: 26196

OFFICE HOURS:
Mon. and Wed. 7:00 – 8:15 am
Mon. and Wed. 11:30 – 1:00 pm
Tues. and Thurs. 10:00 – 11:15 am
Fri. 7:00 – 9:00 am (e-mail)

COURSE OVERVIEW

REQUIRED MATERIALS/TEXTBOOKS
- Textbook: Microbiology – A System Approach (5th ed.) by Cowan & Smith
- Lab Manual: Lab Exercises in Microbiology – Modified for Poinciana Campus (authors S. Agustin et.al.)
- Chapter Worksheets (available on Canvas)
- Proper lab attire (full coverage clothing and shoes), lab coat, basic calculator

CANVAS
Portions of this course may take place online using Canvas. It is recommended that you review the tutorials before beginning this material, and set up your phone or e-mail to give alerts. For details, contact support at 407-582-5600. To manage notifications by text, log into Canvas (https://online.valenciacollege.edu/login/canvas) and click on the following:
- Account
- Settings → Other Contact → Contact Method (right side of screen) → enter text information → Register SMS
- A text will go to your phone with a code to enter to confirm your number
- Notifications (select the notifications that you want and where the notification should go to).
Canvas also has a mobile app! To download the app, click Find My School, search for Valencia College, and enter your Atlas login. Click “allow” to enable notifications.

COURSE DESCRIPTION AND PREREQUISITE
Prerequisite: Minimum grade of C in BSC 1010C or BSC2093C; Credit Hours: 4
Description: This lecture/lab course is designed for Health Science majors. Survey of microbial forms with emphasis on bacteria and viruses: morphology, physiology, genetic mechanisms, and control of microorganisms. Pathogenic processes and microbes discussed in detail.
Note: These topics will be covered through lectures, discussion, in-class activities, presentations, and laboratory experiments. In the process, you will use CRITICAL THINKING and will also learn the benefits of teamwork and collaboration.

LEARNING OUTCOMES:
- Demonstrate the appropriate use of epidemiological terminology in context of public health.
- Identify the major milestones in microbiology.
- Identify the mechanisms of pathogenicity and distinguish the different levels of immunity operating in the human body.
- Describe how macromolecules contribute to the functions necessary for microbial life.
- Identify the causes of major human infectious disease and relate that information to the appropriate organ system.
- Demonstrate a working knowledge of aseptic technique.
- Classify microorganisms according to a common taxonomic hierarchy.
- Differentiate between prokaryotic and eukaryotic organisms and explain the function of each structure in both cell types.
• Demonstrate an understanding of microscopy.
• Gain an understanding of viruses by explaining viral structure, multiplication, spread and control.
• Integrate lab knowledge to identify unknown microbes and determine how appropriate antimicrobial drugs are chosen for given bacterial infections.
• Explain basic microbial metabolism and summarize what is needed for the growth of microorganisms.
• Describe all the chemical and physical means available to control microbes and to identify those that provide sterility.
• Identify mechanism of action of commonly used antimicrobial drugs and the concerns associated with the development of drug-resistant strains.
• Model knowledge of molecular genetics and recognize the importance of basic genetic engineering.

CORE COMPETENCIES OF A VALENCIA GRADUATE

Valencia’s Student Core Competencies are complex abilities that are considered the essential elements of a successful student. This course will help you develop and demonstrate these abilities:

• **Think**: Think clearly, critically, and creatively.
• **Value**: Make reasoned judgments and responsible commitments.
• **Communicate**: Communicate with others verbally and in written form.
• **Act**: Act purposefully, effectively, and responsibly.

Our goal is to provide these global competencies in the context of application. This means that students will be required to understand problems and effectively communicate an appropriate solution. A full description of the competencies is available through the Valencia College website: http://valenciacollege.edu/competencies/.

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CLASSROOM POLICIES

**ATTENDANCE POLICY**

Students are expected to attend all class meetings of all courses for which you are registered. Regular attendance and regular class participation are significant factors that promote success in college. Classroom policy regarding attendance is as follows:

• Arrive ON TIME, complete all assignments, and remain in the class for the entire time except for scheduled breaks.
• Assessments (tests, exams, quizzes) and labs will begin on time. Extra time will not be allowed for late-comers. To participate in lab, you must be on time to hear the pre-lab lecture.
• Students are responsible for all work presented when they are absent, and are also responsible for any announcements made in class. Communication is critical when you are unable to attend class. If you miss a class due to an emergency, it is your responsibility to find out what was missed by communicating with the instructor or your classmates!
• It is the student’s responsibility to withdraw from the class before the deadline (March 20, 2020; 11:59 p.m.). According to Valencia’s policy, (1) a student who withdraws before the withdrawal deadline will receive a W; (2) a student is not permitted to withdraw after the withdrawal deadline. **If a student has three or more absences before the withdrawal deadline, the instructor may withdraw the student from the course by the deadline.** (If a student fails to attend the first two days of classes, it is an automatic “No Show” or withdrawal.) No withdrawal will be done after the deadline! Please note that points will be given for attendance and participation in labs. Excessive absences, therefore, may negatively affect your final grade.
• **Note to Students on Bright Futures scholarship**: Students on Bright Futures scholarship who are withdrawn from a class must pay the college for the cost of the class!
• It is best practice to meet with the instructor of the class, an academic advisor, and a financial aid advisor (if applicable) before withdrawing from a class!

**“NO SHOW” STATUS**

Class attendance is required beginning with the first class meeting. If you do not attend the first class meeting, you may be withdrawn from the class as a “no show.” If you are withdrawn as a “no show,” you will be financially responsible for the class and a final grade of “WN” will appear on your transcript for the course.
TARDINESS AND OTHER CLASS DISRUPTIONS
Tardiness is considered rude so please be on time to every class. Students who persist on being tardy or leaving early will be dealt with on an individual basis. Additionally, talking to others or leaving the room during a presentation or lecture is unacceptable. Questions during class are always accepted if they are relevant to the lecture. Some subject areas may be controversial. It’s okay if we review or discuss these types of issues, but let’s do it in a civilized manner while showing respect and tolerance for each other’s opinion. Persistent disruption will be cause for removal from the classroom. You will be given a break during the class so please plan accordingly.

CLASS PREPARATION AND LATE WORK
• Students are expected to bring all course materials, book, pencil/pen, and paper to every class.
• Be prepared for class by reading the required chapters and completing any required assignments. Prior to each lab, review the lab activity—especially the objectives and introduction.
• A “due date” means the last day for which an assignment is due. **Unless specified differently, the due time is at the beginning of class.** Early submissions are welcomed. In addition, some of the assignments can be submitted through Canvas, which is highly recommended in case of an unexpected absence. (Do NOT send assignments to my Atlas e-mail.) In a few cases, based on the instructor’s discretion, late assignments may be accepted at a penalty (25% deduction) up to the following class day.
• No late assignments will be accepted after the last day we meet prior to the week of final exams.
• Hastily written work, without depth or thought, will either be assigned a zero or returned with a deadline to be redone (with points deducted). A zero will be given if the assignment is not resubmitted.

Technology problems are no excuse for lateness (e.g. “My printer broke…ran out of ink…etc.”). Please use the computer labs on campus, when needed. For the hours of operation, visit the Poinciana Campus Student Services website [http://valenciacollege.edu/poinciana/student-services.cfm](http://valenciacollege.edu/poinciana/student-services.cfm). In addition, most of the assignments may be submitted online via Canvas.

ONLINE PARTICIPATION
Students are expected to maintain proper decorum while online. Proper etiquette includes, but is not limited to, treating your fellow students with respect and using appropriate language in all work.

CLASS PARTICIPATION AND EXPECTATIONS
This is not an easy course, but can be an enjoyable learning experience if you put in the necessary time and effort. You are expected to actively participate in class discussions and activities. Be prepared by taking notes while reading at home (e.g. completing the chapter worksheets), completing all assignments on time, and have at least one question or comment about assigned reading every session (e.g. Discussions on Canvas). Students often ask the following:

1. “If I review the PowerPoints but do not read the textbook, will I do okay on the test?”
2. “Could you please tell me what to focus on for the test? I do not want to waste time studying things that are not necessary.”

My response to the first is that reading the textbook may make a letter grade difference on the final grade. My response to the second is that my purpose is not only to help you learn the material for the current class/test, but to also prepare you for your future classes. Nothing is wasted. To succeed in this class, READ the textbook! Use the objectives and chapter worksheets I provide as a guide. I also recommend that you FORM STUDY GROUPS to reinforce what we are learning in the course. Constructive study groups are the best kept secret to succeeding in your studies! If you are having trouble with the subject, please make an appointment to see me. It is in your interest to seek help as soon as you face a difficulty. Waiting until the third exam to discuss your academic performance will be of little benefit to you!

All forms of academic dishonesty are prohibited at Valencia College. Academic dishonesty includes (but is not limited to) plagiarism, cheating, furnishing false information, forgery, alteration or misuse of documents, misconduct during a test situation, and misuse of identification with intent to defraud or deceive. **It is assumed that all work that you turn in is your own. It is cheating to show someone your test, homework, or lab work so that they may copy the work instead of doing it themselves. It is cheating to copy directly from any reference. It is okay if you work in groups on certain assignments; however, each person’s work should NOT be a word-for-word copy of the others’. I consider this a form of plagiarism. Any evidence of cheating on any assignment or exam will result in 0 for the first offense for all parties involved, and an “F” for the entire course for the second offense. No grades will be dropped or replace if there is evidence of cheating on any assignment.**
**IMPROPER TECHNOLOGY USAGE**

While you are allowed to use technology as a resource in class, it is expected that you will use the resource maturely. Please do not use your cell phone or laptop for personal reasons during class time. You are encouraged to use these devices for material relevant to the class discussion. The occasional emergency is understandable. In such a case, you may leave the classroom to check your phone if necessary. Otherwise, it is extremely disrespectful to the professor and your fellow classmates. Excessive texting, use of social media in class, playing digital games without inviting the professor, or any other inappropriate activities may result in your being removed from the class for the day. You will be marked as “absent” if this occurs. **Note:** Cell phones should NOT be on or near your person during any assessments. **If this guideline is ignored, I will assume that you are cheating and a grade of zero will be assigned!**

**INTERNATIONAL STUDENTS (F-1 OR J-1 VISA):** Please be advised that withdrawal from this course due to attendance may result in the termination of your visa status if you fall below the full-time enrollment requirements of 12 credit hours. Consult the International Student Service office for more information.

**LAB SAFETY**

Because the labs might require the use of biological and chemical hazardous materials, there will be **NO EATING, DRINKING, OR CHEWING GUM** in the lab! Application of makeup and/or lip balm is also prohibited. **Water bottles or food should not be visible at any time!** If you have your water bottle in your bag and need a drink, take the bag with you out of the classroom.

Proper attire is required to participate in the experiments; without it, you will be asked to leave the lab room and will lose participation points. Appropriate clothing underneath the lab coat should offer full coverage such as shirts with sleeves and no bare midriffs, long pants/jeans/skirts that reach the top of the shoe. Pants with holes above the knee or shorts are **NOT** acceptable. Proper attire also includes wearing shoes that completely cover your feet. Therefore, no one is permitted into the lab room without **CLOSED-TOE/CLOSED-HEEL SHOES** regardless of what we are doing! **If your toes, heels, or sides of your feet are visible, then the footwear is not appropriate!** Crocs, ballet flats, boat shoes, and high heels are not acceptable footwear for the laboratory. For additional safety, you must be present during instruction time to participate in any lab that involves chemicals or special equipment. A lab coat must be worn at all times. Safety goggles must be worn when working with chemicals or specimen. **(NOTE: If the final exam is held in the lab room, closed-toe shoes will be required on that day.)**

After each lab, you are expected to clean both your station and the community areas. Make sure to dispose of used gloves and bacterial cultures as specified by the instructor.

If you are concerned about any medical conditions (including pregnancy) that may compromise your safety in the lab, it is your responsibility to request a list of chemicals used in course experiments to show to your physician.

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**EVALUATION AND GRADING**

**Course Evaluation and Grading Scale**

<table>
<thead>
<tr>
<th>Grading Criteria</th>
<th>Points</th>
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<tbody>
<tr>
<td>4 Lecture Exams (100 points each)</td>
<td>400 pts</td>
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<tr>
<td>Cumulative Final Exam</td>
<td>100 pts</td>
</tr>
<tr>
<td>2 Lab Practical (50 pts each)</td>
<td>100 pts</td>
</tr>
<tr>
<td>Syllabus Rules Quiz (via Canvas)</td>
<td>20 pts</td>
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<tr>
<td>9 Lab Quizzes + Assignments (10 pts each)</td>
<td>90 pts</td>
</tr>
<tr>
<td>10 chapter worksheets / quizzes (10 pts each)</td>
<td>100 pts</td>
</tr>
<tr>
<td>Disease Project (see Canvas for due dates)</td>
<td>75 pts</td>
</tr>
<tr>
<td>Lab Rules and Participation (see Lab Delinquencies)</td>
<td>40 pts</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>925 pts</td>
</tr>
</tbody>
</table>

**Important note about the lab:**

Microbiology-related labs typically require two days. Experiments are set up on the first day; results are read or analyzed on the second day (this is often 48 hours after the set up day). Therefore, it is critical that you do not miss any day of class. The full participation points 4 pts for a lab will be deducted if either the set up day or the analysis day is missed.

**Grading Scale**

A = 90 - 100  B = 80 – 89  C = 70 – 79  D = 60 – 69  F = 59 or below
Lab Delinquencies
Participation in the lab is worth a total of 40 points. The following is a list for which points will be deducted per offense.

<table>
<thead>
<tr>
<th>Deduction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) - 2 pts</td>
<td>No lab book or lab coat (also see #5)</td>
</tr>
<tr>
<td>2) - 2 pts</td>
<td>Food or drink visible at any time</td>
</tr>
<tr>
<td>3) - 2 pts</td>
<td>Lab table not cleaned; Assigned microscope not cleaned or is put away improperly</td>
</tr>
<tr>
<td>4) - 4 pts</td>
<td>Missed lab after 1st absence (Note: No one is allowed in the lab with improper clothing or footwear)</td>
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</tbody>
</table>

Make-up exams and assignments

Makeup work for a missed unit exam is limited and given primarily for three documented reasons: jury duty, military service or Title IX-related reasons. In all other cases, the final exam will be counted twice to replace the lowest scoring (or missed) unit exam. However, if a student is allowed to make up an exam for reasons other than those mentioned above, the final exam will not be used as a replacement score. Missed lab exams, final exam, or a second missed unit exam will be dealt with individually based on the instructor’s discretion. Home-works and quizzes cannot be made up. If absent, it is the student’s responsibility to contact a class member, obtain the assignment, and come to the next class meeting prepared. (See “Class Preparation and Late Work” for more information.) Please note that the final exam is cumulative and cannot be dropped. Failure to take the final will result in an F in the course.

Course assignments: See syllabus and assignments in Canvas.

Summary of Best “Practices”

- Participate in study groups.
- Read the textbook; Review your notes regularly.
- Ask questions; Answer each other’s question if possible.
- Come to class every day. Be on time!
- Teach someone what you have learned!
- Incorporate Valencia’s student services into your academic life (writing center, tutoring center, library, etc.)
- Create your own study guides.
- Earn your grade. Do no rely on extra credit.
- Seek help when necessary.

Many of you plan to pursue the field of health. In this field, there is no room for error or excuses. The allied health programs are equally demanding. Students are expected to be responsible, independent, and of high integrity. Study guides are rare. There are no extra credits. Absences may not be excused unless for documented emergencies. The grading system is also different for the allied health programs: A = 92 – 100; B = 85 – 91;  C = 77 – 84;  D = 70 – 76; F = 69 or below. Consider this class as a tool in which to practice the skills required to succeed in these programs. Take the initiative to read the material. Do not wait for reminders. Do not wait a few days before an exam to begin studying. Study/review your notes every day. If you do not understand the material, find ways to address these gaps. “Ways” include your classmate, your instructor, other textbooks, or the internet. Every chapter builds on previous chapters, and each course builds on previous courses. Therefore, study for long-term (not short-term) reasons. Time management is critical for succeeding in your courses! Make sure that you have sufficient time for studying.

Here are a few recommendations:

1. Attend an allied health information sessions (http://valenciacollege.edu/west/health/InfoSession.cfm); review the admission updates (http://valenciacollege.edu/west/health/AdmissionUpdates.cfm) or that of your target school.
2. Talk to students who are in the health sciences (e.g. nursing, dental hygiene, sonography, etc.). Ask them what they would have done differently in their previous classes to increase their success in the program.
3. Before committing to a program, do an internship to gain awareness of the expectations of that profession.

Extra Credit Assignments

Note: Although there are opportunities to earn extra points throughout the semester, there are NO end-of-semester extra credit assignments to boost final grades! Do not ask. I will not respond!
**VALENCIA COLLEGE POLICIES AND GENERAL INFORMATION**

**Important Links**
- [College Calendar](http://valenciacollege.edu/calendar/)
- [Important Dates & Deadlines](http://valenciacollege.edu/calendar/documents/Important-Dates-Calendar-2017-2018.pdf)
- [Final Exam Schedule](http://valenciacollege.edu/calendar/FinalExam.cfm)
- [College Catalog](http://valenciacollege.edu/catalog/)
- [Valencia Policy and Procedures](http://valenciacollege.edu/generalcounsel/policy/)
- [FERPA](http://valenciacollege.edu/ferpa/)
- [Student Handbook](http://valenciacollege.edu/pdf/studenthandbook.pdf)
- [Office for Students with Disabilities (OSD)](http://valenciacollege.edu/osd/)

**Important Course and College Dates (Spring 2020)**
- January 6: Classes begin
- January 14: Drop/Refund deadline (midnight)
- January 20: MLK College closed
- January 24: Change of Program deadline
- February 14: VC Learning Day (No classes)
- February 17 - 21: Early Alert Week for Grades
- February 28: Summer registration begins
- March 9 - 15: Spring Break (College closed)
- March 20: Withdrawal deadline
- April 19: Day and evening classes end
- April 20 - 26: Final exam week
- April 26: Term ends
- April 27: Grades due
- April 28: Final grades viewable in Atlas
- May 3: Commencement

**Withdrawal Policy**
Please see the date above for the withdrawal deadline. During a first or second attempt in the same course at Valencia, if you withdraw or are withdrawn by the professor, you will receive a non-punitive grade of “W” (Withdrawn). You will not receive credit for the course, and the W will not be calculated in your grade point average; however, the enrollment will count in your total attempts in the specific course. Students are not permitted to withdraw after the withdrawal deadline! A student may be administratively withdrawn from the course due to violation of class attendance policy; if you are withdrawn administratively, you will receive a W. Any student who withdraws or is withdrawn from a class during the third or subsequent attempt to complete the course will be assigned a grade of F. Please note that withdrawal from a course may impact financial aid; it is strongly recommended a student consult with the professor, an adviser, and financial aid before withdrawing from the course.

**Student Code of Conduct**
Valencia College is dedicated not only to the advancement of knowledge and learning, but the development of responsible personal and social conduct. By enrolling at Valencia College, a student assumes the responsibility for becoming familiar with and abiding by the general rules of conduct. The primary responsibility for managing the classroom environment rests with the faculty. Students who engage in any prohibited or unlawful acts that result in disruption of a class may be directed by the faculty member to leave the classroom. Violation of any classroom or Valencia rules may lead to disciplinary action up to and including expulsion from Valencia. Disciplinary action could include being withdrawn from class, disciplinary warning, probation, suspension, expulsion, or other appropriate and authorized actions. You will find the Student Code of Conduct in the current Valencia Student Handbook.

**Academic Honesty**
Each student is required to follow Valencia policy regarding academic honesty. All work submitted by students is expected to be the result of the student’s individual thoughts, research, and self-expression, unless the assignment specifically states “group project.” Any act of academic dishonesty will be handled in accordance with Valencia policy as set forth in the Student Handbook and Catalog. At Valencia, we expect the highest standards of academic honesty. Academic dishonesty is prohibited in accordance with policy 6Hx28: 8-11 upheld by the Vice President of Student Affairs Academic dishonesty includes, but is not limited to, plagiarism, cheating, furnishing false information, forgery, alteration or misuse of documents, misconduct during a testing situation, and misuse of identification with intent to defraud or deceive. For more detail, you can visit online the Office of Policy and General counsel (http://valenciacollege.edu/generalcounsel/policy/).
**Plagiarism**

Plagiarism is the act of taking another individual's writings or ideas and passing them off as your own. This includes directly copying even a small portion of the text, indirectly taking thoughts by paraphrasing ideas without correctly attributing to the source (meaning both with signal phrases and in-text parenthetical citations), using papers written in previous courses (self-plagiarism), and using another individual's research without the correct attribution. Any act of plagiarism or academic dishonesty will result in an automatic failing grade on the assignment, no matter how small the infraction; to clarify, this means the assignment will receive no points. Additional action may be taken with the college's administrative offices. Do not endanger your academic career: If there is a severe issue, you are confused about what constitutes plagiarism, or you feel dishonesty is your only solution, contact me immediately and we will discuss the matter. Remember, once the assignment has been submitted, there is no distinction between unintentional plagiarism and intentional plagiarism – it's just intentional in my eyes. Students' work will be submitted through Canvas's plagiarism assessment tool.

**Internet Research Statement**

Because of the variety of sources, ease of publication, lack of central control, and proliferation of commercial information on the free Internet, it is often hard to tell if information obtained online is reliable. Many sites contain research and information of high quality; however, unlike traditional print publications or library-based electronic resources, there is usually no process of peer review, nor is there an editor verifying the accuracy of information presented on the Internet. There are an increasing number of sites containing information that may be incomplete, anonymously written, out-of-date, biased, fraudulent, or whose content may not be factual. Students should, therefore, use caution in use of the free Internet for their research needs. For academic topics that are addressed in scholarly literature, use of electronic databases or visiting the library may better meet your needs. However, each professor makes the final determination of what is, or is not, accepted as a valid source, so review the syllabus for specific guidelines from your professor.

**Students with Disabilities**

Students with disabilities who qualify for academic accommodations must provide a letter from the Office for Students with Disabilities (OSD) and discuss specific needs with their professor, preferably during the first two weeks of class. (For more information visit the OSD website: http://valenciacollege.edu/osd/.)

**Personal Policy:** If you require any special accommodations for the course, do not hesitate to let me know. You have my permission to tape record anything in the course; any additional accommodations must go through the Office for Students with Disabilities (see below).

**From the Office for Students with Disabilities:** Students with disabilities who qualify for academic accommodations must provide a letter from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of class. OSD determines accommodations based on appropriate documentation of disabilities (Osceola Campus: Building 1, Room 140, ext. 4167). All requests will be kept in strict confidence.

**Student Assistance Program**

Valencia College is interested in making sure all of our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help with issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management, as well as relationship problems dealing with school, home, or work. BayCare Behavioral Health Student Assistance Program (SAP) services are free to all Valencia students and available 24 hours a day at (800) 878-5470. Free face-to-face counseling is also available.

**Valencia ID Cards**

Valencia ID cards are required for LRC, Testing Center, and IMC usage. No other form of ID will be accepted at these locations. Possession and utilization of a Valencia ID is mandatory in order to obtain these services.

**Campus Security**

Every effort is made to maintain a safe environment for students and employees. Please report suspicious people or packages to campus security at 407-582-6500 (PNC 1-103).
# MCB 2010C CLASS SCHEDULE (Labs: Plate on Tuesday; Analyze on Thursday)

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Labs</th>
<th>Lecture</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan. 6 – Jan. 11</td>
<td>Lab 1: Laboratory Guidelines &amp; Safety</td>
<td>Ch 1: Main Themes of Microbiology</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Ex. 1.1, 1.2, &amp; 1.3</strong></td>
<td>Ch 2: The Chemistry of Biology</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Ch 1: Main Themes of Microbiology</strong></td>
<td>Ch 3: Tools of Laboratory (Cultures)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Ch 2: The Chemistry of Biology</strong></td>
<td>Ch 4: Bacteria and Archaea</td>
</tr>
<tr>
<td>2</td>
<td>Jan. 13 – Jan. 18</td>
<td>Lab 2: Aseptic Techniques &amp; Cultures</td>
<td>Ch 2: The Chemistry of Biology</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Ex. 2.1 &amp; 2.2</strong></td>
<td>Ch 3.1: Tools of Laboratory (Cultures)</td>
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<tr>
<td></td>
<td></td>
<td><strong>Ch 2: The Chemistry of Biology</strong></td>
<td>Ch 4: Bacteria and Archaea</td>
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<tr>
<td></td>
<td></td>
<td><strong>Ch 3.1: Tools of Laboratory</strong></td>
<td>Microbiologists: Class Activity</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Ch 4: Bacteria and Archaea</strong></td>
<td>Microbiologists: Class Activity</td>
</tr>
<tr>
<td>3</td>
<td>Jan. 20 – Jan. 25</td>
<td>Lab 3: Microscopy</td>
<td>Exam 1: Chapts. 1 – 2 (Online)</td>
</tr>
<tr>
<td></td>
<td>(Monday: MLK Day)</td>
<td><strong>Ex. 3.1</strong></td>
<td>Ch 5: Eukaryotic cells &amp; Microorganisms</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>Microbiologists: Class Activity</td>
</tr>
<tr>
<td>4</td>
<td>Jan. 27 – Feb. 1</td>
<td>Lab 4: Microbial World</td>
<td>Ch 3.2: Tools of Laboratory (Staining)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Ex. 3.2</strong></td>
<td>Ch 6: An Introduction to Viruses</td>
</tr>
<tr>
<td>5</td>
<td>Feb. 3 – Feb. 8</td>
<td>Lab 5: Staining Methods I</td>
<td>Exam 2: Chapts. 4 – 6 (Th)</td>
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<tr>
<td></td>
<td></td>
<td><strong>Ex. 4.1</strong></td>
<td>Ch 7: Nutrition, Ecology, and Growth</td>
</tr>
<tr>
<td>6</td>
<td>Feb. 10 – Feb. 15</td>
<td>Lab 6: Staining Methods II</td>
<td>Ch 8: Microbial Metabolism (Tu)</td>
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<tr>
<td></td>
<td>(Friday: Learning Day)</td>
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<tr>
<td>7</td>
<td>Feb. 17 – Feb. 22</td>
<td>Lab 7: Microbial Growth</td>
<td>Ch. 8 continued…</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Ex. 5.1 &amp; 5.2</strong></td>
<td>Library Activity</td>
</tr>
<tr>
<td>8</td>
<td>Feb. 24 – Feb. 29</td>
<td><strong>Lab Practical I: Labs 1 – 6 (Tu)</strong></td>
<td>Exam 3: Chapts. 7 – 8 (Th)</td>
</tr>
<tr>
<td>9</td>
<td>Mar. 2 – Mar. 7</td>
<td>Lab 8: Diagnostic Technique: Staphylococci</td>
<td>Ch 9: Microbial Genetics</td>
</tr>
<tr>
<td>10</td>
<td>Mar. 9 – Mar. 14</td>
<td><strong>SPRING BREAK: NO CLASSES</strong></td>
<td>SPRING BREAK: NO CLASSES</td>
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<td>(Spring Break: No Classes)</td>
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<tr>
<td>11</td>
<td>Mar. 16 – Mar. 21</td>
<td>Lab 9: Diagnostic Technique: Urine Culture</td>
<td>Ch 11: Physical &amp; Chemical Control</td>
</tr>
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<td><strong>Ex. 7.1 &amp; 7.2</strong></td>
<td>Ch 12: Antimicrobial Treatments</td>
</tr>
<tr>
<td>12</td>
<td>Mar. 23 – Mar. 28</td>
<td>Lab 10a: Diagnostic Technique: Fecal Culture – <strong>Ex. 8</strong></td>
<td>Exam 4: Chapts. 9, 11, &amp; 12 (Th)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lab 10b: Microbial Genetics – <strong>Ex. 11</strong></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Mar. 30 – Apr. 4</td>
<td>Lab 11: Pathogen Transmission</td>
<td>Ch 13: Microbe-Human Interactions (Tu)</td>
</tr>
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<td></td>
<td><strong>Ex. 9</strong></td>
<td>Ch 14: Host Defenses – Nonspecific (Th)</td>
</tr>
<tr>
<td>14</td>
<td>Apr. 6 – Apr. 11</td>
<td>Lab 12b: Hematology &amp; Immunology</td>
<td>Ch 15: Host Defenses – Specific</td>
</tr>
<tr>
<td>15</td>
<td>Apr. 13 – Apr. 18</td>
<td><strong>Lab Practical II</strong> (Labs 8 – 12)</td>
<td>DISEASES PROJECT REPORT (Selected diseases from Chapts. 18-23)</td>
</tr>
<tr>
<td>16</td>
<td>Apr. 20 – Apr. 25</td>
<td><strong>NO LABS: FINAL EXAM WEEK</strong></td>
<td>Final Exam (Thurs 7:00 – 9:30 am) (Proper lab attire REQUIRED!)</td>
</tr>
</tbody>
</table>

**Disclaimer**
I reserve the right to modify course procedures/policies at any time. The schedule is an estimate of what we will be covering at the time. If off schedule, we will adjust accordingly. It is your responsibility to keep up with any changes made to the syllabus.

**Note:** There are NO end-of-semester extra credit assignments to boost final grades. Do not ask. I will not respond.