

## Mixed-mode MCB 2010C: Microbiology Spring 2024 Syllabus

**Professor:** M. Calovic, PhD.

**Communication Channels for all course-related inquiries and correspondence:**

Canvas Messenger: accessed via the "Inbox" option in the left-hand global navigation menu within Canvas).

Email: [mcalovic@valenciacollege.edu](mailto:mcalovic@valenciacollege.edu)

**Office Hours for Assistance:** Online via Zoom/Email

If you encounter challenges with lecture/lab concepts or have concerns, please don't hesitate to reach out. I am here to help and can be reached through Canvas Messenger. If your questions or needs cannot be fully addressed via email, you have the option to reserve a 30-minute appointment for a private 1:1 Zoom meeting\* during the following times:

<b>Monday:</b>	By appointment only
<b>Tuesday:</b>	10:00 am – 12:00 pm / 8:00 pm – 10:00 pm
<b>Wednesday:</b>	10:00 am – 12:00 pm / 8:00 pm – 10:00 pm
<b>Thursday:</b>	By appointment only
<b>Friday:</b>	10:00 am – 2:00 pm

\*Note: Access my Bookable Calendar by clicking the "Office Hours" button on the Course Home Page. When scheduling an appointment, plan to do so at least 24 hours in advance. Following the appointment booking, please send me a brief courtesy email via Canvas messaging, outlining the purpose of our meeting. If the provided schedule does not suit your availability, please contact me to arrange a mutually convenient meeting time.

Your success is important, and I am dedicated to supporting your learning journey.

### **CLASS MEETING TIMES**

**Lab: AHS Room 320 (Mondays 8:30 am - 11:15 am) – attendance is mandatory**

This mixed-mode course requires weekly face-to-face class meetings for the lab portion only, so lab attendance will be taken. There will also be a few virtual sessions (via Zoom) scheduled throughout the semester, but you will not be required to attend any of these sessions. Remember that they will be video recorded and posted on Canvas only if students attend.

The online lecture portion will be covered through my narrated PPTs w/transcripts, readings of the textbook chapters, and the McGraw-Hill Connect lecture assignments. You will have non-extendable due dates for completing all the readings, assignments, and assessments, and thereby, you are expected to be responsible and take charge of learning the material before taking the unit exams.

Until further notice, you can wear masks indoors at any Valencia College facility. If you have a positive COVID diagnosis, COVID-like symptoms, or symptoms of any other communicable respiratory disease, you need to stay at home. I will not penalize students by deducting points for missing classes due to sickness.

### **COURSE INFORMATION**

**Prerequisite:** Minimum grade of C in BSC 1010C or BSC 2093C.

**Credit (Contact) Hours:** 4 (6)

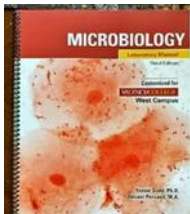
**Course Description:** The course introduces basic principles of the structure, physiology, genetics, and control of microorganisms through Chapter readings (1-7, 9-13, & 15-16) accompanied by selected diseases from Chapters (19-24). The students will learn representative types of four main groups of microorganisms: bacteria, protozoa, viruses, and multicellular parasites. The course will also include a study of the roles of various microorganisms in health and causing disease, the modes of their transmission, and the host-microorganism interactions, including non-specific and specific

immunity. The lab is an integral component of this course and is designed to reinforce and extend the course material within this setting. Lab and lecture are designed to complement each other and are not mutually exclusive of each other.

**Goal:** To prepare nursing and other allied health majors to function safely and knowledgeably in environments where pathogenic microbes are present causing human disease, or where microbes are the subject of academic, medical, or scientific inquiry.

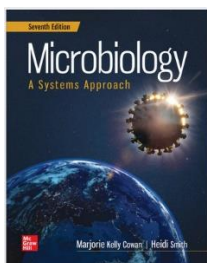
### **REQUIRED TEXTBOOK**

- **Microbiology Laboratory Manual by Saad and Persaud 4th Edition (customized for Valencia College–West Campus) publisher Morton Publishing ISBN: 9781640436138.** This lab manual can be purchased only from the college bookstore.



- **Microbiology: A Systems Approach eBook w/Connect (Digital Access for Canvas) by Cowan 7<sup>th</sup> Edition, publisher McGraw-Hill ISBN: 9781264505647**

This ISBN is the digital code only, which gives you access to the e-textbook **and** the Connect learning platform that is loaded with virtual materials needed for the lecture assignments in the course. The card w/the digital code can be purchased directly from Akademos - Valencia College bookstore (~\$130 + shipping cost). If you experience delayed deliveries of the card, please use a free 2-week temporary Connect Trial offered by the publisher through your Valencia College Web course after setting up a Connect account and clicking the “purchase option.” If you prefer to avoid delayed deliveries from Akademos and save some money on store mark-ups/shipping costs, then the best option is to purchase the digital code directly from the publisher through the Web course. The student should only purchase the new offering w/Connect because a used product will not have Connect access.



Instructions on registering for and navigating the Connect tools will be available on the course homepage by clicking the links under "Resources for Connect."

The students will utilize only one component of the Connect learning platform, LearnSmart. This powerful adaptive learning solution knows when to learn something new and what you will likely forget. Connect's Virtual Labs will not be used throughout the semester unless the college decides to switch classes again from face-to-face to online mode.

### **PDF CONVERSION APP ON YOUR PHONE**

It is helpful to have the Simple Scanner, Cam Scanner, Adobe Scan, Microsoft Office Lens, or any other app that turns your smartphone into a document scanner and saves your document into a single pdf document you can upload to Canvas.

## CANVAS

The online portion of this course will be using the learning management system (LMS) Canvas. Detailed instructions on navigating through Canvas (ex. the minimum system requirements, Canvas profile creation, and setting up the phone/e-mail alerts) are posted under the module "Introduction to Canvas." You can also browse through Student FAQs: <https://valenciacollege.edu/faculty/canvas-resources/student-faqs.php>. If you need any additional assistance, contact support at 407-582-5600.

## HONORLOCK PROCTORING

To promote academic integrity during online testing, this course utilizes Valencia Honorlock proctoring service. The requirement for online proctoring is **only for lecture exams and lecture quizzes and NOT for lab quizzes and Connect assignments**. By enrolling in this course, you consent to the use of the proctoring software, which includes the audio-visual monitoring and recording of your exam sessions. Before taking the exam, you will not need to create an account, download software, or schedule an appointment in advance. All required are a desktop computer (or a laptop), a working webcam/microphone, and a stable Internet connection. You will need Google Chrome and download the Honorlock Chrome Extension to get started. When ready for the test, go to your course in Canvas and click on your exam. Clicking Launch Proctoring will begin the Honorlock authentication process, where you will take a picture of yourself, show your ID, and complete a scan of your room. Honorlock will be recording your exam session via the webcam and your screen. Honorlock also has an integrity algorithm that detects "extra" movements, all the voices/whisperings/noises, etc. To prevent being "red-flagged," be ready to take the examinations in a QUIET location where you will not be disturbed by other people in your household, and please do NOT look anywhere else but on your screen, do NOT talk to anybody, do NOT have your other technology gadgets near you, do NOT wear hats and headphones, and do NOT eat/drink while taking the assessment. These will be closed-book exams, so please do NOT have any notes or books near you, and do NOT access the search engines on primary/secondary electronic devices. If you encounter any issues during an exam, you can contact support (available 24/7) by live chat within the Honorlock window in Canvas or by phone (855-828-4004). More detailed instructions on downloading the Honorlock Chrome Extension and being better prepared for online proctoring are posted under the module "Valencia Honorlock Proctoring." You can also browse through students' FAQs: <https://valenciacollege.edu/faculty/canvas-resources/online-remote-proctoring-students.php>.

**You must follow clear instructions (see below) while taking the proctored lecture exams/quizzes. If not, you will receive a violation report, and a copy of that report will also be sent to the Dean of science.**

### After verifying your identity and before the examination starts:

- SLOWLY do a 360\* scan of your room
- Scan the top of the workspace and UNDER the tabletop (you have to do your test at the desk, dining, kitchen table, or any other hard surface while sitting in a chair. Lying in your bed is absolutely not permitted. Holding your laptop on your lap, chest, the floor, or anywhere else that is not a hard surface is prohibited. You must remove the clutter from the tabletop, record that this tabletop is EMPTY, and take the test at the table you just recorded!
- Show the front of the computer screen, to record that you have absolutely zero notes taped around your screen (if your camera is integrated into the computer, show the front of the computer screen with a small mirror; you do not need to use a huge mirror)

### During the examination:

- You must sit at the desk and not sit/lie on your bed
- Cannot test sitting under the covers of your bed
- Cannot have blankets/covers over your lap while sitting and testing

- Cannot sit in the public place
- Cannot eat or drink while taking the assessment
- Cannot have a TV, CD player, or anything that produces sound in the background
- Face forward (keep the entire face visible) and look at the screen while testing
- Do not look anywhere else but at your screen
- If you need to look away, look up at the ceiling (not down, not left, not right)
- NO SPEAKING THE QUESTIONS OUT LOUD; NO MUMBLING; NO WHISPERING (there must be complete silence as you were in the classroom taking an exam)
- No phones, other technology gadgets, books, or papers (all of these)
- Do not talk to anybody & No one talks to you while taking the test
- No leaving the camera/testing area while testing; choose ONE location for testing
- If you continue taking the exam/quiz without HonorLock proctoring, you will receive a ZERO
- Do not wear headphones, sunglasses, hats

### **IMPORTANT DATES**

**Classes Begin:** January 8

**Drop/Refund Deadline:** January 16

**No classes:** January 15 (Martin Luther King Day)

**No classes:** February 9 (Student Holiday)

**No classes:** March 18-24 (Spring Break)

**Withdrawal Deadline:** March 15

**Term Ends:** April 28

**Grades Due (Viewable in Atlas):** April 29 (April 30)

### **VALENCIA COLLEGE CORE COMPETENCES**

This course is designed to provide you with a foundation of microbiological understanding while fostering the development of learning skills. It is built around the Valencia Community College competencies of THINK, VALUE, ACT, and COMMUNICATE. Go to the ATLAS website for more information on Valencia competencies and student policies.

### **STUDENT ACTIVITIES**

To achieve the student learning outcomes (to see the full list of these, click the green button "Start Here" on the Course Home Page), you will be evaluated through the following assignments:

**Reading Assignments:** Each week, you will complete Connect's reading assignments for specific textbook chapters to understand the main concepts involved in clinical microbiology. Use direct links in Canvas to access the lecture assignments and unit reviews (do not access them from your MGH account) to avoid problems of automatic syncing of your grades between MGH and Canvas. The Lecture Assignments will be assigned from the LearnSmart component. The Lecture Unit Reviews from the LearnSmart component will be offered to you as *extra credit opportunities*. All these Connect tools will help you study the course material better and more efficiently since the available PPTs (narrated by your professor) and uploaded videos from the external websites provide only partial support for the particular topics.

*The lowest one Lecture Assignment grade will be dropped.*

**Quizzes:** To assess your understanding of the readings/videos, you will take Honorlock proctored Lecture Quizzes online in Canvas before taking high-stakes unit exams. As these represent low-stakes formative assessments, you will be allowed two (2) opportunities to take each quiz, and the grade will be determined by keeping the higher score of the two attempts. After the first attempt, you will see your submitted answers with some feedback. If mastery of the concepts on the first

attempt is still not achieved, you will have time to revisit the reading material before making the next attempt.

Lab Quizzes will be administered at the end of some lab sessions and will cover the lab material that was done up to that point (in the previous and current weeks). These quizzes also represent low-stakes formative assessments and will help you determine your current understanding of the material we are working on. No make-up lab quizzes will be given. If you miss a lab quiz because of extenuating circumstances, you will be given a copy of the lab quiz but not the opportunity to turn it in for grading; you will receive a grade of ZERO for that quiz. Lecture and lab quizzes may include multiple-choice, multiple answers, matching, fill-in-the-blank, labeling, or open-ended questions.

*The lowest one Lecture Quiz grade will be dropped.*

*The Lab Quizzes grades will NOT be dropped.*

**Mid-term and Final Lab Practical Exams:** You will take two practical exams to assess understanding and retention of the information included in the lab exercises. Each will cover all the material within five consecutive lab sessions, as outlined in the lab schedule. Both practical exams will be administered in the class, and no make-up opportunities will be given in class, after class, or online (there will be no online versions of the practical exams). If you miss a practical exam because of extenuating circumstances, you will receive a grade of ZERO for that exam. Exams may include multiple-choice, multiple answers, matching, fill-in-the-blank, labeling, or open-ended questions.

*The Lab Practical Exam grades will NOT be dropped.*

**Unit Exams:** To assess understanding and retention of the concepts and information covered by the specific chapters, you will take five (5) online Honorlock proctored lecture unit exams. As these represent summative assessments, you will only get a **single attempt** at each exam. Exams may include multiple-choice, multiple answers, matching, fill-in-the-blank, labeling, or open-ended questions.

*The Unit Exam grades will NOT be dropped. However, if you score higher on the final exam than on ONE of the previous 5 unit exams, the low score (even if it is ZERO for the missed exam) will be replaced by the final exam grade. This policy will only replace the grade of a single unit exam.*

**Final Exam:** To assess understanding and retention of the content covered throughout the course, you will take Honorlock proctored cumulative exam in the lecture and lab. As with the Unit Lecture Exams, you will only get a single attempt on this exam. The final exam may include multiple-choice, multiple answers, matching, fill-in-the-blank, labeling, or open-ended questions.

*The Final Exam grade will NOT be dropped. Failure to take this exam will result in an approximately 10% penalty on your overall course grade.*

Exam #	Topics on Exams
Unit 1	Chapters 1, 2, 3 w. selected diseases
Unit 2	Chapters 4, 5, 7 w. selected diseases
Unit 3	Chapters 6, 9, 10 w. selected diseases
Unit 4	Chapters 11, 12, 13 w. selected diseases
Unit 5	Chapters 15, 16 w. selected diseases
Final	Cumulative

**Case study:** The case study is a lab-based activity that highlights the importance of the techniques we learn in the microbiology lab and how those techniques are used to identify real-world diseases that affect our patients. Information on the case study homework assignment will be given in class at the appropriate time for that assignment. Please be sure to turn in this assignment on the due date

as it will NOT be accepted at any other time unless the student has a documented medical excuse for not turning it in.

**ASSESSMENT, GRADING, AND MAKE-UP POLICIES**

The course uses a weighted system to calculate grade categories; each category is expressed as a percentage of a final grade worth 100%

<b>Grade Categories</b>	<b>Weight</b>
<b>Unit Exams (5) &amp; Final Exam</b>	<b>41 %</b>
<b>Connect Lecture Assignments</b>	<b>16 %</b>
<b>Lecture Quizzes</b>	<b>16 %</b>
<b>Lab Practical Exams (2)</b>	<b>18 %</b>
<b>Lab Quizzes</b>	<b>5 %</b>
<b>Lab Attendance</b>	<b>2 %</b>
<b>Lab Case-based Studies</b>	<b>2 %</b>
<b>GRAND TOTAL</b>	<b>100 %</b>

\* No grades will be dropped or replaced if there is evidence of cheating on any assignment.

<b>Grade</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>F</b>
	90-100%	80-89%	70-79%	60-69%	<59%

The online exams/quizzes/assignments will be offered over a range of days to accommodate your busy schedule, and you MUST take them on scheduled dates/times ONLY, not early and not late. Take your exams/quizzes/assignments well before the 11:59 pm cut-off time, or you risk the assignment suddenly closing at midnight and losing your score. The missed and locked assessments after the due dates will NOT be reopened, so please give yourself enough time to find a solution if there is a problem. Canvas Gradebook is set to apply a ZERO grade for missing submissions.

Once you access the online exams/quizzes, you will have to complete them without the ability to pause time. If you accidentally exit the timed assessment, you will not be able to come back to finish it. There will be NO EXAM RESETS, not even for students who call and say that the exam crashed in the middle of taking it. My suggestion is to take your tests from a reliable computer with high-speed internet and DO NOT use a wireless internet connection while taking the timed assessment.

In this course, there will be no MAKE-UPS\*, no GRADING ON A CURVE, and no ROUNDING UP OF FINAL GRADES, so you must be prepared for each and every exam and quiz. As for extra credit opportunities, they are at my sole discretion and will be communicated to ALL students. In other words, no extra credit will be offered to any student without it being offered to all the other students. Please DO NOT ask for extra credit in the last week of the semester because I will not respond.

**\*Note:** A make-up of a missed exam/quiz/assignment will be granted ONLY for DOCUMENTED medical emergencies, jury duty, death of immediate family members, military service, or Title IX-related reasons. The document from the appropriate authority (doctor, police, judge, etc.) must clearly show the date\time, name, and contact information of the responsible authority. If your work schedule is unpredictable or other responsibilities are likely to interfere with your coursework, you may need to reconsider taking the class this semester.

On the LAST DAY of the semester:

- I will turn on the extra credit portion of the grade
- I will set up a Canvas grade book to drop the lowest grades (for Connect Lecture Assignment and Canvas Lecture Quiz) for all students at the same time (Note: I will NOT drop/replace any grades if there is evidence of cheating on any assignment)

Your grades will be posted regularly on Canvas, so please check them periodically for any discrepancies. I will not give out nor discuss your assessment scores and final grades over the phone and/or via private email addresses since I must comply with the federal FERPA law. This law protects the privacy of student educational records. We can only discuss your grades during private Zoom meetings. Also, I will under no circumstances participate in any grade predictions requested by students. I encourage you to use Canvas's "What-If scores" feature to hypothesize your total grade.

### **TIME COMMITMENT AND STUDY GUIDES**

Each week, you will have to go through PPTs & videos as your online lessons and complete assignments/quizzes/exams. If you want to get the most out of the presented materials and earn the best grade you can, you should plan to spend at least 4 hours on the readings and assignments each day (even on Saturdays and Sundays). Follow the weekly schedule and stay on top of your assignments by logging in daily to complete your work. Use the Canvas Calendar and create alerts on your phone or computer for exams/quizzes/assignments, due dates, or anything else you might forget.

Videos and readings posted on Canvas (Professor's narrated PPTs, transcripts, notes, etc.) are to be used ONLY as supplementary material to your textbook because they do not represent the comprehensive information you need to know for the exams. The professor is under no obligation to provide written STUDY GUIDES to students. "You will be encouraged to produce your own study guides. Most college professors do not provide study guides, but they can give you tips that will help you produce your own study guides to gain a better understanding of the course content" (if you need to read in full "LETTER FROM THE DEAN - Expectations of a Valencia College Science Student," you will find it uploaded in the module "Getting Started.")

### **CLASS POLICIES AND GENERAL INFORMATION**

**Attendance:** Valencia College believes that regular attendance and class participation are significant factors that promote success in college. Therefore, the college has a mandatory attendance policy for all classes. In other words, you must attend labs unless unavoidable emergencies prevent attendance. You are allowed only one unexcused lab. Any further unexcused absences before the withdrawal deadline might result in you being administratively withdrawn from the course with a "W" grade. If the unexcused absences occur after the withdrawal deadline, you will receive an "F" for the semester.

All students must be signed into a sign-in sheet for each lab. Failure to do so will constitute an absence. Similarly, leaving early will be noted as a student being completely absent from a particular lecture/lab. When absent, it is the student's responsibility to gather class notes and any missed work (it is recommended that you find a "buddy" with whom to share class information). Missed laboratories (excused or unexcused) will result in a loss of 5 points per lab from the Lab Attendance part of the grade (for a possible total of 60 points). Arriving after the lab has begun will result in a loss of 3 points from the Lab Attendance.

The student must provide documentation from an appropriate authority (doctor, police, judge, etc.) justifying the reason behind missing a lab. These documents must clearly show the date\time, name of the responsible authority, the reason for being absent, and the contact information for the

responsible authority. Examples of acceptable reason(s) are as follows: documented medical emergencies, documented death of members of immediate family, and documented jury duty. Examples of unacceptable medical / family / personal reasons that will not be considered are: poor performance, family problems, changed schedule at work, transportation problems, broken car/flat tires, going on a trip, etc.

**“No-show status”:** If a student does not show up in class at least once during the first week of the semester or does not participate in the weekly online activities of the class during the first week of the semester, the student will be dropped from the course 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.

**Withdrawal Policy:** It is the student's responsibility to initiate a voluntary withdrawal from the class before the withdrawal deadline **[March 15, 2024 (11:59 pm)]** to receive a grade of "W." Following withdrawal, you cannot continue to attend the lecture/lab component of the class due to liability issues. A student is not permitted to withdraw after the withdrawal deadline. In other words, if you remain in the class after the withdrawal deadline, you can only receive a grade of A, B, C, D, F, or I. An "I" grade will only be assigned under extraordinary circumstances that occur near the end of the semester. If you receive an "I," the work missed must be made up during the following semester, at which time you will get an A, B, C, D, or F. Failure to make up the work during the next semester will result in you getting a grade of "F" in the course. Any student who withdraws from this class during a third or subsequent attempt in this 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.

**Electronic devices:** You cannot use audio recording equipment or videotape at any time unless it is accommodation mandated by the Office of Students with Disabilities. You cannot take pictures at any time. You may use a laptop computer or a small tablet device for notetaking in class. Suppose you are discovered using the device for other purposes, or it creates a distraction to other students / disrupts the class in any other way. In that case, you will be asked to leave the classroom, which will be counted as an absence for the entire session (5 points will be deducted from the Lab/Lecture Attendance part of the grade). All other electronic devices (cell phones, pagers, and beepers) should be turned off or set to vibrate SILENT MODE and cannot be visible at any time. If a cell phone is needed for an emergency, please excuse yourself from the class and take the call outside. During any assessments, cell phones SHOULD NOT BE ON or NEAR YOU. In such cases, it will be assumed that you are cheating, and a grade of zero will be assigned. The professor reserves the right to remove a student from the class due to prohibited acts. Students who violate classroom or Valencia rules will potentially face disciplinary actions, including expulsion from Valencia.

**Netiquette - code of behavior in electronic environments:** To maintain a positive online environment, we all need to follow the netiquette guidelines summarized below.

*All students are expected to:*

- Show respect for the instructor and other students in the class
- Respect the privacy of other students
- Express differences of opinion in a polite and rational way
- Maintain an environment of constructive criticism when commenting on the work of other students
- Avoid bringing up irrelevant topics when involved in group discussions or other collaborative activities

*Students should not:*

- Show disrespect for the instructor or other students in the class
- Send messages or comments that are threatening, harassing, or offensive
- Use inappropriate or offensive language



- Convey a hostile or confrontational tone when communicating or working collaboratively with other students
- USE ALL UPPERCASE IN THEIR MESSAGES - THIS IS THE EQUIVALENT OF SHOUTING!!!

**Academic Honesty:** Please review Valencia's policy on academic dishonesty, which is prohibited 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. The short version is – do your own work and submit your own ideas. Any violation of the policy (submitting someone else's work as your own, cheating on an exam, etc.) will result in a grade of zero on that assignment. Repeat offenses will result in an F in the course and a referral to the Dean of Students. <http://valenciacollege.edu/generalcounsel/policy/>

You will receive an Academic Honesty Agreement to read, sign, and upload to the Canvas page of this course BEFORE the FIRST UNIT EXAM. You will not be able to take the first exam if the signed agreement is not on file.

**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 known as Unicheck.

**Disabilities:** Students with disabilities who qualify for academic accommodation must provide a letter from the Office for Students with Disabilities (OSD) and discuss specific needs with their Professor, preferably during the first week of class. West Campus, SSB 102, Phone: (407) 582-1523 <http://valenciacollege.edu/osd/>

**Online Tutoring:** If you need additional help with understanding the key concepts, visit the Distance Tutoring LibGuide [www.valenciacollege.edu/tutoring](http://www.valenciacollege.edu/tutoring)

Click on the appropriate subject area to view the tutoring hours for the current term or join a live science tutoring session. Please note: Brainfuse is our new 24/7 online tutoring and learning hub, available to all Valencia's students. This service is best used as a backup to Valencia's Distance Tutoring service, not as a replacement. Brainfuse is accessible through Canvas or by visiting [www.valenciacollege.edu/tutoring](http://www.valenciacollege.edu/tutoring)

**Baycare Behavioral Health's Student Assistance Program:** Valencia College is committed to ensuring all our students have a rewarding and successful college experience. For that purpose, Valencia students can get immediate help with issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management, and 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 by calling (800) 878-5470. Free face-to-face counseling is also available. A Victim Service Center's Sexual Assault Hotline is available at (407) 497-6701 or at <http://www.victimservicecenter.com/>

#### Important Valencia Website Links

- College Calendar: <http://valenciacollege.edu/calendar/>
- Important Dates, Deadlines, and Final Exam Schedule: <https://valenciacollege.edu/academics/calendar/>
- College Catalog: <http://valenciacollege.edu/catalog/>
- Valencia Policy and Procedures: <https://valenciacollege.edu/about/general-counsel/policy/>
- FERPA: <http://valenciacollege.edu/ferpa/>

**Disclaimer:** The syllabus, assignments, and due dates are subject to change at the discretion of the Professor, and you will be informed of these changes via a Canvas announcement. Your continued participation in this course after the add-drop period constitutes an agreement with and an acceptance of the conditions presented within this syllabus. This schedule below does not include all the assignments/activities that will be covered in this course and thereby should be used by students only as a general outline of the topics that need to be studied.

## MCB 2010C Mixed-mode Spring 2024 Schedule\*

**\*Note: Chapter readings (1-16) will be accompanied by selected diseases from Chapters 19-24**

	LABS (Mondays, in person AHS-320)	Chapter Readings* (online)
Week 1 1/8 - 1/14	<i>Lab 1: Ubiquity of Bacteria and Microscopy</i>	<i>Ch 1: Main Themes of Microbiology</i> LearnSmart & Chapter quiz
Week 2 1/15 - 1/21	No labs (MLK Holiday)	<i>Ch 2: Chemistry of Biology</i> LearnSmart & Chapter quiz
Week 3 1/22 - 1/28	<i>Lab 2: Survey of Microorganisms and Culturing Bacteria</i>	<i>Ch 3: Tools of the Lab</i> LearnSmart & Chapter quiz Unit 1 Review <b>Unit Exam #1 (Chs 1,2,3) - online</b>
Week 4 1/29 - 2/4	<i>Lab 3: Staining I</i> <b>Lab Quiz #1 (Labs 1,2)</b>	<i>Ch 4: Bacteria and Archaea</i> LearnSmart & Chapter quiz
Week 5 2/5 - 2/11	<i>Lab 4: Staining II</i> <i>Lab 5: Selective/Differential Media</i> <b>Lab Quiz #2 (Labs 3,4)</b>	<i>Ch 5: Eukaryotic Cells and Microorganisms</i>
Week 6 2/12 - 2/18	<i>Lab 6: Physical Growth Factors, Bacterial Nutrition</i> <b>Lab Quiz #3 (Labs 5,6)</b>	<i>Ch 7: Introduction to Viruses</i> LearnSmart & Chapter quiz <b>Unit Exam #2 (Chs 4,5,7) - online</b>
Week 7 2/19 - 2/25	<i>Lab 7: Biochemical Test media</i> <b>Lab Quiz #4 (Labs 6,7)</b>	<i>Ch 9: Microbial Nutrition and Growth</i> LearnSmart & Chapter quiz
Week 8 2/26 - 3/3	<b>Midterm Lab Practical Exam (Labs 1–6)</b> In-person AHS-320 <i>Lab 7: continued</i>	<i>Ch 10: Microbial Metabolism</i> LearnSmart & Chapter quiz
Week 9 3/4 - 3/10	<i>Lab 8:</i> <b>Identification of <i>Enterobacteriaceae</i></b> <b>Kirby-Bauer Antibiotic Assay</b>	<i>Ch 6: Microbial Genetics</i> LearnSmart & Chapter quiz <b>Unit Exam #3 (Chs 6,9,10) - online</b>
Week 10 3/11 - 3/17	<b>Case Studies Due</b> <i>Lab 8: continued</i> <b>Lab Quiz #5 (Labs 7,8)</b>	<i>Ch 11: Control of Microbes</i> LearnSmart & Chapter quiz
Week 11 3/18 - 3/24	No classes (Spring Break)	No classes (Spring Break)
Week 12 3/25 - 3/31	<i>Lab 9: DNA Transformation</i> Effects of UV <b>Lab Quiz #6 (Lab 8)</b>	<i>Ch 12: Antimicrobial Therapy</i> LearnSmart & Chapter quiz
Week 13 4/1 - 4/7	<i>Lab 10: Immunology</i> (HIV & epidemic simulations)	<i>Ch 13: Infection and Disease</i> LearnSmart & Chapter quiz <b>Unit Exam #4 (Chs 11,12,13)- online</b>
Week 14 4/8 - 4/14	<i>Lab 11: Human Blood Cell Count</i> <b>Lab Quiz #7 (Labs 9,10,11)</b>	<i>Ch 15: Nonspecific Immunity</i> LearnSmart & Chapter quiz
Week 15 4/15 - 4/21	<b>Final Lab Practical Exam (Labs 7 –11)</b> In-person AHS-320	<i>Ch 16: Specific Immunity</i> LearnSmart & Chapter quiz Unit 5 Review <b>Unit Exam #5 (Chs 15,1) - online</b>
Week 16 4/22 - 4/26	No labs (Week of finals)	<b>Final Lecture Exam - online</b> (cumulative) <b>Due on Friday, April 26</b>

