



Walters State Community College Course Syllabus

Course Information

Course Number and Name: BIOL 2230 Intro to Microbiology

Section ID: 80616.202380

Semester and Year: Fall 2023

Credit Hours: 3

Start Date: August 21, 2023

End Date: December 08, 2023

Course Format: WEB - Web Classes

Catalog Course Description: A course is a survey of microorganisms with emphasis on morphology, growth and pathogenesis of bacteria, fungi and viruses and other disease causing microorganisms. Human defense mechanisms against disease are also emphasized in this course. Principles of disease and the cause, symptoms, transmission, progressions, and treatments of infectious disease of each body system are emphasized. Pre/Co-requisite: BIOL 2231 **F, S, Su**

Meeting Details: TBD

Course Drop Deadline: October 27, 2023

Instructor Information

Name: Kamal Malik

Office Location: MMH 203

Office Hours: Posted on the eLearn

Office Phone: 865-774-5849

Email: Kamal.Malik@ws.edu

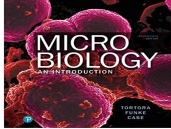
Supervisor Name: Smith D. Mathew

Supervisor Phone: 423-585-6881

Secretary Name: Sherry D. Woody

Secretary Phone: 423-585-6928

Required Textbook(s) and Materials



Microbiology: An Introduction: 13th edition with value pack components

ISBN: ISBN 9780134605180

Authors: Tortora; Benjamin Cummings

Publisher: Pearson (June 14th 2019) - Copyright © 2019

Publication Date: June 14th 2019

Edition: 13thg

Student Learning Outcomes/Objectives

- Course outcomes

Course Outcomes

At completion of the course the student will be able to:

1. Bacteria
 - a. Identify the activities and persons contributing to the development of microbiology
 - b. Identify classification criteria and cell structure associated with prokaryotes
2. Metabolism
 - a. Define metabolism and compare anabolic, catabolic, fermentative and enzymatic activities in microorganism
3. Fungi
 - a. Identify classification criteria and cell structure associated with eukaryotes
4. Viruses
 - a. Describe viral replication, classification and laboratory culture methods.
5. Controls
 - a. Identify the physical and chemical requirements for microbial growth and control.
6. Diseases
 - a. Identify the causative agent, symptoms, transmission and treatment of various infectious diseases involving human body systems
7. Immunity
 - a. Compare and contrast innate and adaptive immunities and their abilities to defend against pathogenic microorganisms.
8. DNA Technology

a. Compare and contrast methods and benefits of biotechnology, genetic modification and recombinant DNA.

- Tentative course outline

- 1 The Microbial World and You
- 4 Functional Anatomy
- 5 Microbial Metabolism
- 6 Growth
- 7 Control of Growth
- 8 Microbial Genetics
- 9 Biotechnology
- 10 Classification
- 11 The Prokaryotes
- 12 Fungi, Protozoans and Multicellular Parasites
- 13 Viruses
- 14 Principles of Disease
- 15 Pathogenicity
- 16 Innate Immunity: Nonspecific
- 17 Adaptive Immunity: Specific
- 19 Disorders
- 20 Antimicrobial Drugs
- 21 Diseases of Skin and Eyes
- 22 Diseases of Nervous System
- 23 Disease of Cardiovascular and Lymphatic Systems
- 24 Diseases of Respiratory System
- 25 Diseases of Digestive System
- 26 Diseases of Urinary and Reproductive

Instructional Approach and Methods

Instructional and Evaluation Methods:

Lecture with accompanying laboratory exercises, most material presented with overhead projections, slides, films, and computer generated presentations. Lecture examinations may include multiple choice and discussion questions. Exams and quizzes may be given electronically on iPads.

Assessment, Evaluation and Testing Procedures

Instructional and Evaluation Methods:

Lecture with accompanying laboratory exercises, most material presented with overhead projections, slides, films, and computer generated presentations. Lecture examinations may include multiple choice and discussion questions. Exams and quizzes may be given electronically on iPads.

Testing Procedures:

Exam Policy:

1. ALL exams are to be taken at times scheduled by the instructor.
2. ALL exams scheduled in the course by the instructor must be taken in order for the student to receive a passing grade.
3. Make-up exams will be given for excused absences only (excused absences include illness, death in family, and military or jury duty).
4. Make-up exams must be taken before the next scheduled exam.
5. All eLearn assignments must be submitted as scheduled.

Assignments and exams may be given in class or online via d2L/eLearn. For those administered online through d2L/eLearn, students may be required to use a virtual proctoring program like Respondus Lockdown Browser with Monitor. Virtual proctoring programs will require a compatible device, microphone, and webcam. In the event that the student does not use the specified requirements or the entire assignment or exam is not completely proctored, this could result in a grade of zero "0" for the assignment or exam. Students will be provided specific testing procedure and assignment completion information directly from the instructor.

Grading Scale

Grading Scale:

Lecture exams	500 pts.
Comprehensive Final	200 pts.
Chapter Quizzes	150 pts.

Lecture exams 500 pts.

eLearn Activities 50 pts.

A	90% of 900 (810 - 900 points)
B	80% of 900 (720 – 809 points)
C	70% of 900 (630 – 719 points)
D	60% of 900 (540 – 629 points)
F	Less than 60% of 900 (less than 540 points)

Assignments

Assignments/Projects:

Extra Credit:

Each professor has the option to offer the opportunity to earn up to **20** additional points through the semester. Examples include, but are not limited to, bonus questions on exams, in class quizzes, etc. The instructor's policy will be explained in detail on the first day of class. In no instance will credit be provided for any activity not related to the scope of the course. The aim of the class is to get a solid understanding of Microbiology so that grades reflect our abilities to communicate the material and not a supplementary assignment or task. All students, especially those that feel they are struggling with the material, are strongly encouraged to use office hours, send emails, make appointments for extra help, etc. throughout the semester.

HIPs (High Impact Practices) Honors Research Project:

HIPs Honor Research project equivalent to one test score is optional. Instructor will give details during the course orientation.

Students transcripts will be electronically coded for HIPs research project.

Class Participation

Class participation is mandatory.

Academic Honesty

Faculty expect all students to refrain from acts of academic misconduct including but not limited to:

1. Plagiarism - refers to using another person's ideas or writing without giving proper credit to the original source. Indulging in this type of conduct will subject the student to disciplinary sanctions, which may be imposed through the regular institutional procedures of Walters State Community College as outlined in the Student Handbook. Plagiarism will result in a grade of "0" for the paper/exam/presentation. Student Conduct and Disciplinary Sanctions contained in the college Catalog/Student Handbook apply (see policy 04:18:02 Disciplinary Sanctions).

Plagiarism includes, but is not limited to the following:

- a. Using cut/paste tool from original document with no references given.
 - b. Copying another student's work and submitting it as one's own.
 - c. Forging or otherwise altering signatures.
 - d. Giving or falsifying academic documents or materials.
2. Cheating - construed as attempting to deceive or mislead which includes, but is not limited to the following:
 - a. Utilizing old tests, projects, notes or written papers.
 - b. Providing unauthorized information to a fellow student about exam content.
 - c. Receiving unauthorized aid from any source with quizzes, examinations, or other assignments.
 - d. Seeking information in an unacceptable manner during/preceding an exam or other assigned work (cheat sheet, verbal exchange, looking at another person's paper or electronic device, utilizing headphones, using textbook when the test/quiz is not an open book test/quiz, using textbook test bank etc.).
 - e. Consulting with a classmate or others when taking a computerized test.
 - f. Disregarding other specific policies and procedures outlined for a particular class.
 - g. Utilizing unapproved technology/electronic equipment during testing (i.e.: mobile devices such as cell phones, smart devices, or tablets, etc.).
 - h. Using the same Internet Protocol network address (IP address) as another student for testing without approval from the course faculty.
 3. The use of any generative artificial intelligence (AI) tool, such as OpenAI's ChatGPT, Google's Bard, or any other pre-trained language model (commonly referred to as "chatbot"), must be cited for any assignment where it has been used and may not be used unless specifically allowed by your instructor. Please see your instructor or the course policies within the syllabus if you have questions.

Student Resources

TUTORING SERVICES

Students in need of tutoring assistance are encouraged to contact the Office of Student Tutoring located as follows:

- Morristown Campus - Student Services Building Room L107 - (423) 585-6920
- Niswonger Campus - GRNV 226 - (423) 798-7982
- Sevierville Campus - MMH Room 210 - (865) 286-2787
- Claiborne Campus - Room 123A - (423) 851-4761

Specific tutoring assistance in mathematics and writing is available in-person and online as follows:

- Morristown Campus - English Learning Lab - HUM 120 - (423) 585-6970

[Walters State English Learning Lab \(opens in new window\)](https://www.waltersstate.edu/academics/humanities/writing-lab)
[ws.edu/academics/humanities/writing-lab](https://www.waltersstate.edu/academics/humanities/writing-lab)

- Morristown Campus - Mathematics Lab - MBSS 222 - (423) 585-6872

[Walters State Mathematics Learning Lab \(opens in new window\)](https://www.waltersstate.edu/academics/mathematics/learning-lab)
[ws.edu/academics/mathematics/learning-lab](https://www.waltersstate.edu/academics/mathematics/learning-lab)

TECHNOLOGY SUPPORT

Students who need assistance with computing and technology issues should contact the IET Helpdesk by phone at Morristown: (423) 318-2742; Niswonger: (423) 798-8186; or Sevierville: (865) 286-2789 or on-line access.

[Walters State Helpdesk \(opens in new window\)](https://www.waltersstate.edu/helpdesk)
[helpdesk.ws.edu](https://www.waltersstate.edu/helpdesk)

STUDENTS WITH DISABILITIES SUPPORT SERVICES

Students with disabilities must register with Student Support Services each semester in the Student Services Building, Room U134 (phone (423) 585-6892) if they need any special facilities, services, or consideration.

[Walters State Student Support Services \(opens in new window\)](https://www.waltersstate.edu/student-services/disability/)
[ws.edu/student-services/disability/](https://www.waltersstate.edu/student-services/disability/)

SUICIDE PREVENTION STATEMENT

Walters State is committed to and cares about all students. Support services are available for any person at Walters State who is experiencing feelings of being overwhelmed, hopelessness, depression, thinking about dying by suicide, or is otherwise in need of assistance. For immediate

help, contact the National Suicide Prevention Lifeline by calling or texting 9-8-8 or the Trevor Lifeline at 1-866-488-7386. Veterans may also contact the Veterans Crisis Line at 1-800-273-8255 (press 1) or Text 838255.

Walters State has a relationship in place with the following community agencies to provide services (may include crisis referral services, prevention screenings, etc.):

- Cherokee Health Systems 423-586-5032
- Frontier Health 423-467-3600

College Policies

STUDENTS HANDBOOK AS OFFICIAL GOVERNING DOCUMENT

This class is governed by the policies and procedures stated in the current Walters State Community College Student Handbook. All students attending Walters State Community College, regardless of the time, location, or format of the class, must abide by the rules and regulations outlined in the current Walters State Catalog/Student Handbook and the current Walters State Timetable of Classes.

[Walters State Catalog \(opens in new window\)](https://catalog.ws.edu/)
catalog.ws.edu/

[Walters State Timetable of Classes \(opens in new window\)](https://ws.edu/admissions/registration/)
ws.edu/admissions/registration/

PURPOSE, LIMITATIONS AND MODIFICATION OF SYLLABUS

This syllabus sets forth the expectations for the course content, work, and grading as well as expectations for student performance and conduct. The syllabus does not constitute a contract between the student and the instructor or the College. The information contained here is subject to change at any time. The instructor reserves the right to modify this syllabus at any time with written notification to the students. Though changes are possible, it is expected that the course will be conducted as described in this syllabus for the semester/year specified in the Course Information section of the syllabus. This syllabus is only valid for the semester/year specified and course requirements are not guaranteed for future semesters.

COURSE GROUND RULES

- Students must attend the first day of on-ground class or contact the instructor prior to the first class. Failure to do this may result in being dropped from the class. Excessive absences may substantially lower the course grade.

- Regular class attendance is a student's obligation for any course regardless of format. (See the Walters State Catalog/Student Handbook). If a student misses class, it is his or her responsibility to contact the instructor regarding missed assignments and/or activities and to be prepared for the next class assignment.
- Students enrolled in web courses must follow the course attendance policy defined for online attendance during the first week of class and throughout the term. Failure to do this may result in being dropped from the class during week one OR may result in the accrual of absences which may negatively impact the student's grade in the course.
- Students who have not paid fees on time and/or are not correctly registered for this class and whose names do not appear on official class rolls generated by the Walters State student information system (MyWS) will not be allowed to remain in class or receive credit for this course.
- Electronic devices must not disrupt the instructional process or college-sponsored academic activity. Use of electronic devices is prohibited unless use of the device is relevant to the activity and use is sanctioned by the faculty member in charge. Electronic devices that are not relevant to the activity or sanctioned by the faculty member in charge should be set so that they will not produce an audible sound during classroom instruction or other college-sponsored academic activity.

FINANCIAL AID

Students receiving any type of financial aid or scholarship should contact the Financial Aid Office before making any changes to their schedule. Schedule changes without prior approval may result in loss of award for the current term and future terms.

All forms of student Financial Aid may be jeopardized or lost due to the lack of Satisfactory Academic Progress in one or multiple courses. Lack of Satisfactory Academic Progress may negatively impact a student's degree/certificate completion pace and further jeopardize Financial Aid eligibility.

CANCELLATION OF CLASSES AND ACADEMIC CONTINUITY

For information related to the cancellation of classes due to inclement weather or other events, please check the Senators Emergency Text system or the college's Web site at:

[Walters State Homepage \(opens in new window\)](https://www.waltersstate.edu/home/)
[ws.edu/home/](https://www.waltersstate.edu/home/)

[Walters State Facebook page \(opens in new window\)](https://www.facebook.com/WaltersState/)
<https://www.facebook.com/WaltersState/>

[Walters State Twitter page \(opens in new window\)](https://twitter.com/waltersstate)
<https://twitter.com/waltersstate>

or call the college's student information line, 1-800-225-4770, option 1; the Sevier County Campus, (865) 774-5800, option 7; the Niswonger Campus (423) 798-7940, option 7; or the Claiborne County Campus, 423-636-6200, option 7. Also, please monitor local TV and radio stations for further announcements.

When an event or disaster interrupts the scheduled operations of the college and the ability to proceed with the academic course activities as planned, the college and your instructor may alter the course plan outlined in the syllabus. Should an event occur, students should refer to their course e-Learn pages and/or class materials previously delivered to receive guidance from their instructor. Students should continue to monitor the official college channels of communication listed in the above paragraph. If you would like to sign up for the Senators Emergency Text system, please go to the following Web site:

[Senator Emergency Text System \(opens in new window\)](http://ws.edu/set/)
ws.edu/set/

Dual Enrollment students attending on a high school campus should refer to the high school inclement weather cancellations.

LEARNING MANAGEMENT SYSTEM

Brightspace (commonly known as eLearn or D2L) is the college's Learning Management System (LMS).

Brightspace is committed to accessibility by "deliver[ing] a learning experience that meets the needs of all people, regardless of age or ability." [Brightspace Accessibility Standard \(opens in new window\)](#)

Brightspace is also committed to guarding student data and privacy. [Brightspace Privacy Policy \(opens in new window\)](#)