

Midland College Syllabus

2022 - 2023

BIOL 2421 L

Microbiology Lab

4 Semester Credit Hours

(3 Lecture/4 Lab)

Instructor Information:

Instructor: [Click here to enter text.](#)

Office: [Click here to enter text.](#)

Phone: [Click here to enter text.](#)

Email: [Click here to enter text.](#)

Office Hours: [Click here to enter text.](#)

Notice: Students MUST actively participate by completing an academic assignment required by the instructor by the official census date. Students who do not actively participate in an academically-related activity may be reported as never attended and dropped from the course.

Course Description:

This course is designed to enable students to become familiar with study of the morphology, physiology, and taxonomy of representative groups of pathogenic and nonpathogenic microorganisms. Pure cultures of microorganisms grown on selected media are used in learning laboratory techniques. A brief preview of food microbes, public health and immunology are also included. Prerequisite: BIOL 1406, BIOL 2401, CHEM 1405, CHEM 1411 or permission from the instructor.

Text, References and Supplies:

Lecture Textbook: Talaro, Found.In Microbiology-Connect Access

ISBN: 9781260451511

Publisher is Mc Graw Hill

Laboratory Manual: Talaro, Found.In Microbiology-Connect Access

ISBN: 9781260451511

Publisher is Mc Graw Hill

Students must have access to a working computer throughout the course, either through a campus computer or alternative. Alternative computers must be able to access the Internet and Canvas.

Student Learning Outcomes:

Upon completion of this course the student will:

1. Have a fundamental understanding of the general nature of microorganisms.
2. Have a fundamental understanding of the methods of microbial transfer, parasitism, and infection.
3. Have a fundamental understanding of body defense mechanisms against microbial infection.
4. Have a fundamental understanding of the prevention and control of infections caused by microorganisms.

Student Contributions, Responsibilities and Class Policies:

Students will be expected to comply with the policies outlined in the Midland College Student Handbook. Instructor policies concerning attendance and academic behavior are consistent with the policies in the student handbook. Regular attendance is required to do well in this class. Lecture and lab are considered as one class, so any absences in both sections will be combined in order to determine overall absences. Students are expected to complete each assignment, exam, and laboratory exercise.

The last day for withdrawal is published in the catalog and the current course schedule. To drop a course, the student must complete an official withdrawal form with Student Services.

Midland College does not tolerate scholastic dishonesty or academic misconduct in any form. Please read the MC Student Handbook on this subject.

The handling of living microorganisms is REQUIRED for this course. Some of these microorganisms are human pathogens or potential human pathogens. If the student is pregnant, immunocompromised, or has another special medical condition, the student should consult with his/ her physician about these procedures.

A list of safety precautions is given to each student. If a student does not follow good safety guidelines or is deemed a hazard to himself/ herself or others, that student may be dismissed from the lab and will be given zeros for the missed grades.

Attendance Policy:

It is the responsibility of the students to know the policies and procedures associated with absences. These policies are set by instructors. Excused absences may include, but are not limited to, illness, severe weather, and death in the family. Instructors will determine whether or not an absence is excused.

<http://catalog.midland.edu/content.php?catoid=6&navoid=673>

Withdrawal Policy:

Students who have enrolled in a Texas public institution of higher education as a first-time freshman in fall 2007 or later are permitted to drop no more than six courses during the entire undergraduate career. This limit includes all transfer work taken at a Texas institution of higher education and to second baccalaureate degrees. This statute was enacted by the State of Texas in spring 2007 (Texas Education Code 51.907). Any course that a student drops after Census Day is counted toward the six-course limit if "(1) the student was able to drop the course without receiving a grade or incurring an academic penalty; (2) the student's transcript indicates or will indicate that the student was enrolled in the course; and (3) the student is not dropping the course in order to withdraw from the institution." Please visit the [Midland College Catalog](#)

Scholastic Dishonesty:

Midland College does not tolerate scholastic dishonesty or academic misconduct in any form. Please read the MC Student Handbook on this subject. Please visit the [Midland College Catalog](#)

Course Schedule:

This class meets for 3 lecture hours per week and 4 laboratory hours per week. For a tentative schedule of the class meeting and laboratory meetings please refer to the schedule distributed to each student on the first class meeting (See Instructor Handout).

Evaluation of Students:

Lecture Average.....70%

Laboratory Average30%

Grades will be assigned as follows: A=90-100; B=80-89; C=70-79; D=60-69;

F=below 60.

Lab grades will be assessed at the instructor’s discretion within the following parameters:

Daily Grades (may include, but not limited to, homework, quizzes, or other activities) 0-15%

Homework (may include, but not limited to, homework, quizzes, or other activities) 0-15%

Exams: (0-6 exams may be given during the semester) 45-100%

Final Exam: 0-25%

Non-Discrimination Statement

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following individual has been designated to handle inquiries regarding the non-discrimination policies:

Tana Baker

Title IX Coordinator/Compliance Officer

3600 N. Garfield, SSC 131

Midland, Texas 79705

(432) 685-4781

tbaker@midland.edu

For further information on notice of non-discrimination, visit the ED.gov Office of Civil Rights website, or call 1 (800) 421-3481.

Americans with Disabilities Act (ADA) Statement:

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must visit www.midland.edu/accommodation and complete the Application for Accommodation Services located under the Apply for Accommodations tab. Services or accommodations are not automatic, each student must apply and be approved to receive them. All documentation submitted will be reviewed and a "Notice of

Accommodations" letter will be sent to instructors outlining any reasonable accommodations.

Continuity of Instruction Statement

In the event that on campus activities are suspended due to extenuating circumstances, such as weather or quarantine, the instructor will continue instruction in a manner that best supports the course content and student engagement. In this event, your instructor will notify students of the change via [Click here to enter text](#). At that time, they will provide details about how instruction and communication will continue, how academic integrity will be ensured, and what students may expect during the time that on campus activities are suspended. If a student becomes unable to continue class participation due to extenuating circumstances, (e.g., health and safety, loss of power, etc.) the student should contact their instructor and advisor for guidance. Resources are available to students via the SOS program. Information can be found at <https://www.midland.edu/services-resources/student-services/sos.php>.

Grievances or complaints

Concerns should be expressed as soon as possible to allow for early resolution. Midland College encourages students to discuss their concerns with their instructor first. If you feel uncomfortable discussing your situation with your instructor, students should discuss their concerns with the Chair of the appropriate department (Biology Chair – Mr. Tomas Hernandez (432-685-6751), Chemistry Chair – Mr. John Anderson (432-685-6737), Engineering and Physics Chair – Dr. Brian Flowers (432-685-4586), Geology Chair – Mr. Antony Giles (432-685-5580), Kinesiology Chair – Ms. Sheena Thompson (432-685-4579), Math Chair – Dr. Krista Cohlma (432-685-4541) then the Dean of Math and Science – Dr. Miranda Poage (432-685-4561). If a resolution is still not possible, students may proceed with the formal complaint process.

<http://catalog.midland.edu/content.php?catoid=14&navoid=2579#grievances-and-complaints>

Math & Science Division Information:

Division Office: AHSF 124 (432) 685-4561
Division E-Mail: mns@midland.edu

Department Chair: Mr. Tomas Hernandez (432) 685-6751
Dean: Dr. Miranda Poage
Secretary: Sarah Anderson
Clerk: Liliana Orcutt

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