BIOL 2420  
Microbiology for Non-Science Majors - Laboratory

Course Information

Course Description

Laboratory includes basic microbiological methodology that corresponds to the material in the lecture portion of the class.

Prerequisite and Co-requisite Courses

Recommended Prerequisites: Biology 2324/2124 or Health Science Professions 2302/2102

Prerequisite Skills

Accessing Internet websites, including Blackboard, and proficiency with Microsoft Word, Excel and PowerPoint.

Student Learning Outcomes

Upon completion of this course, students will be able to:

- Demonstrate knowledge in discerning signs and symptoms of medically relevant infectious diseases in order to apply knowledge in clinical settings
- Understand infectious disease processes including pathogenesis, diagnosis, signs and symptoms, transmission, and treatment
- Demonstrate understanding of the methods of infectious transmission and the means by which these are controlled, including those related to nosocomial infections
- Demonstrate knowledge of the nature of antimicrobial resistance and to incorporate this knowledge within the context of providing appropriate healthcare
- Demonstrate knowledge in administering quality care in the context of safe handling of infectious materials/patients in order to minimize risk of transmission
Course Delivery
This is a face-to-face course with online components that students are expected to access in Blackboard.¹

Required Texts and Materials

Communication
Contact your specific laboratory instructor in their preferred method.

Grading

Evaluation and Grades
Course grades will be determined as indicated in the table below.

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percent of Total Grade</th>
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</thead>
<tbody>
<tr>
<td>Lab Reports</td>
<td>100</td>
</tr>
<tr>
<td>Lab Midterm</td>
<td>100</td>
</tr>
<tr>
<td>Lab Final</td>
<td>100</td>
</tr>
<tr>
<td>Total</td>
<td>300</td>
</tr>
</tbody>
</table>

Grading System
Course grades will be dependent upon completing course requirements and meeting the student learning outcomes.

Your grade in lab will be factored in with your grade from lecture.

Assignment and Activity Descriptions
Lab Reports will be assigned for each lab they are worth 10 points each. Lab reports are due the next week in lab, unless your instructor gives a different due date. The lab midterm and final will be administered in lab class time.

General Policies Related to This Course
All students are required to follow the policies and procedures presented in these documents:
Academic Integrity

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the university’s Statement of Academic Integrity.

Accommodations for Students with Disabilities

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA) and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website.

The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would
keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures\textsuperscript{6} for more information.

**Student Absence for Observance of Religious Holy Days**
A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day\textsuperscript{7} for more information.

**Title IX at Angelo State University**
The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Miller, J.D.  
Special Assistant to the President and Title IX Coordinator  
Mayer Administration Building, Room 210  
325-486-6357  
michelle.boone@angelo.edu  

You may also file a report online\textsuperscript{8} 24/7.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information, visit the Title IX website\textsuperscript{9}.

**Required Use of Masks/Facial Coverings by Students**
As a member of the Texas Tech University System, Angelo State University has adopted the mandatory Facial Covering Policy\textsuperscript{10} to ensure a safe and healthy classroom experience. Current research on the COVID-19 virus suggests there is a significant
reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this class are required to wear a mask/facial covering before, during, and after class. Faculty members may also ask you to display your daily screening badge as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices to the best of your ability. For the safety of everyone, any student not appropriately wearing a mask/facial covering will be asked to leave the classroom immediately. The student will be responsible to make up any missed class content or work. Continued non-compliance with the Texas Tech University System Policy may result in disciplinary action through the Office of Student Conduct.

Modifications to the Syllabus
This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.

Course Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Lab Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 17 - 21</td>
<td>No Labs</td>
</tr>
<tr>
<td>Jan 24 - 28</td>
<td>Aseptic Technique and Inoculation Methods</td>
</tr>
<tr>
<td>Jan 31 – Feb 4</td>
<td>Microscopy and Staining</td>
</tr>
<tr>
<td>Feb 7 – 11</td>
<td>Gram Staining</td>
</tr>
<tr>
<td>Feb 14 - 18</td>
<td>Selective Media</td>
</tr>
<tr>
<td>Feb 21 - 25</td>
<td>Selective Media</td>
</tr>
<tr>
<td>Feb 28 – Mar 4</td>
<td>Lab Midterm</td>
</tr>
<tr>
<td>Mar 7 - 11</td>
<td>No Labs</td>
</tr>
<tr>
<td>Mar 21 – 25</td>
<td>Standard Plate Count</td>
</tr>
<tr>
<td>Mar 28 – Apr 1</td>
<td>Differential Tests</td>
</tr>
<tr>
<td>April 4 – 8</td>
<td>Differential Tests</td>
</tr>
<tr>
<td>Apr 11 - 15</td>
<td>Antimicrobial Susceptibility</td>
</tr>
<tr>
<td>Apr 18 – 22</td>
<td>Epidemic Simulation</td>
</tr>
<tr>
<td>Apr 25 - 29</td>
<td>Lab Final</td>
</tr>
<tr>
<td>May 2 – 7</td>
<td>No Labs</td>
</tr>
</tbody>
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1 https://blackboard.angelo.edu/
2 https://www.angelo.edu/current-students/student-handbook/
3 https://www.angelo.edu/academics/catalog/