



# HAGERSTOWN COMMUNITY COLLEGE CURRICULUM FORM

## COURSE MODIFICATION

### CC#

Prefix	Course #	Course Title	Division	Effective Term
MLT	202	Clinical Microbiology	HS	FA/26
<b>Reason for Course Modification Submission</b>				
<input checked="" type="checkbox"/> Course Change		<input checked="" type="checkbox"/> Other (explain): Course Title, Course Description and Course Outcomes		
<input type="checkbox"/> Reactivation of Inactive Course				
<b>Rationale for Course Modification</b>				
The revision to the course description improves clarity, uses more concise language, and better reflects learning outcomes. It focuses on key skills and provides a broader, more inclusive overview of the course content, aligning with educational standards.				
<b>Please Indicate all Changes</b>				
<input type="checkbox"/> Prerequisite	<input checked="" type="checkbox"/> Course Description	<input checked="" type="checkbox"/> Other Course Outcomes		
<input type="checkbox"/> Co-Requisite	<input type="checkbox"/> Credits - From: To:	<input checked="" type="checkbox"/> Course Title		
	<input type="checkbox"/> Contact Hrs for:	<input type="checkbox"/> Load for:		
<input type="checkbox"/> Course #	Lecture From: To:	Lecture From: To:		
	Lab From: To:	Lab From: To:		
	Clinical From: To:	Clinical From: To:		
<b>CURRENT Course Information <i>**(Copy/Paste from Catalog)</i></b>				
<b>MLT 202 - Clinical Microbiology (4 Credits)</b>				
This course focuses on the processing and handling of clinical material for microbiological culture with an emphasis on aseptic techniques, sterilization procedures, and specimen handling and treatment. Proper identification of microorganisms through the use of specific media is included as well as antibiotic susceptibility testing, blood culture techniques, and gram staining.				
<b>Prerequisite</b> Take BIO-205 and MLT-101.				
<b>Corequisite</b> Take MLT-202L.				
<b>Semesters Offered</b> Fall Only, All Years				
<b>Student Learning Course Outcomes:</b> Upon successful completion of this course, students will be able to:				
<ol style="list-style-type: none"><li>1. Demonstrate laboratory operations as related to the clinical microbiology laboratory to include requirements for quality assurance, quality control, and safety;</li><li>2. Identify the cognitive theories of clinical microbiology;</li><li>3. Describe methodologies that are used to cultivate, identify, and test susceptibility of microbes in clinical specimens, and identify variable that can affect laboratory results;</li><li>4. Discuss the different factors involved in the bacterial pathogenic process including transmission, isolation, and treatment options;</li><li>5. Identify indigenous microflora and clinically significant microbes that may be encountered in human clinical specimens;</li></ol>				



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6. Identify the phenotypic characteristics of common pathogenic bacteria, parasites, fungi and emerging bioterrorism agents;
7. Relate microbial physiology to the infectious disease process and the diagnostic procedures of the clinical microbiology laboratory; and
8. Correlate laboratory test results with patient conditions.

#### PROPOSED Course Information **\*\* (PLEASE put changes in red)**

#### **MLT 202 - Clinical Microbiology ~~Bacteriology~~ (4 Credits)**

This course focuses on the processing and handling of clinical material for microbiological culture with an emphasis on aseptic techniques, sterilization procedures and specimen handling and treatment. Proper identification of microorganisms through the use of specific media is included as well as antibiotic susceptibility testing, blood culture techniques and gram staining. **specializes in clinical bacteriology, including the various families and genera of gram positive and gram-negative bacteria and the common features of important species within each group. Laboratory procedures include specimen collection and processing as well as the identification of disease-causing organisms, according to their colonial morphology, growth characteristics, and biochemical reactions. Students will learn to differentiate normal flora from potential pathogens related to specific body sites and how to correlate laboratory results with disease states.**

#### **Prerequisite**

Take BIO-205 and MLT-101.

#### **Corequisite**

Take MLT-202L.

#### **Semesters Offered**

Fall Only, All Years

#### **Student Learning Course Outcomes:**

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

1. **Apply correct specimen collection, transport, and processing techniques for microbiology.**
2. **Identify bacteria using routine staining procedures, culture, biochemical, and molecular methods.**
3. **Perform antimicrobial susceptibility testing and interpret resistance mechanisms.**
4. **Apply biosafety standards when handling infectious agents.**
5. **Correlate microbiology results with other laboratory data and report urgent and critical microbiology results to infection prevention and public health agencies.**

**If this Course is adding/removing developmental requisites, have you confirmed this change with Developmental Education? *(please have them sign below)***

Date:

Developmental Education Director/Faculty:

#### **APPROVAL SIGNATURES**

Date:

Requesting Faculty: Shawnda Coon

10/08/2025

Requesting Division Director: Jeffrey Telemeco

10/13/2025

Curriculum Committee Co-Chair:

VPAASS, Co-Chair: