



# HAGERSTOWN COMMUNITY COLLEGE CURRICULUM FORM

## COURSE MODIFICATION

### CC#

Prefix	Course #	Course Title	Division	Effective Term
MLT	205	Immunohematology/Serology	HS	FA/26
<b>Reason for Course Modification Submission</b>				
<input checked="" type="checkbox"/> Course Change		<input checked="" type="checkbox"/> Other (explain): Title change, course prerequisites, Course Description, Course Outcomes, Course Credit Hours.		
<input type="checkbox"/> Reactivation of Inactive Course				
<b>Rationale for Course Modification</b>				
<p>The revision to the course description and title 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.</p> <p>Course learning outcomes have been revised to provide a clearer, more focused framework that emphasizes measurable, applied skills aligned with current industry and accreditation standards.</p> <p>The credit hours for this course have been adjusted from 3 to 4 credits to more accurately reflect the instructional time required and the scope of material covered. This change ensures that credit allocation aligns appropriately with course content, learning outcomes, and workload expectations.</p>				
<b>Please Indicate all Changes</b>				
<input checked="" type="checkbox"/> Prerequisite	<input checked="" type="checkbox"/> Course Description	<input checked="" type="checkbox"/> Other Course Outcomes		
<input type="checkbox"/> Co-Requisite	<input checked="" type="checkbox"/> Credits - From: 3 To: 4	<input checked="" type="checkbox"/> Course Title		
<input type="checkbox"/> Course #	<input checked="" type="checkbox"/> Contact Hrs for:	<input checked="" type="checkbox"/> Load for:		
	Lecture From: 30 To: 45	Lecture From: 30 To: 45		
	Lab From: 45 To: 45	Lab From: 33.75 To: 33.75		
	Clinical From: 0 To: 0	Clinical From: 0 To: 0		
<b>CURRENT Course Information <i>**(Copy/Paste from Catalog)</i></b>				
<b>MLT 205 - Immunohematology / Serology (3 Credits)</b>				
<p>This course studies the theories of blood group antigens, antibodies, ABO grouping, Rh typing, cross matching, antibody screening and identification techniques, as well as special emphasis on quality control.</p> <p><b>Prerequisite</b> Take BIO-205 and MLT-112.</p> <p><b>Corequisite</b> Take MLT-205L</p> <p><b>Semesters Offered</b> Fall Only, All Years</p> <p><b>Student Learning Course Outcomes:</b> Upon successful completion of this course, students will be able to:</p> <ol style="list-style-type: none"><li>1. Demonstrate the ability to integrate basic theory of antibody, antigen and current blood banking protocols with clinical applications of performing the full range of blood bank laboratory tests;</li></ol>				



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2. Demonstrate the procedures involved in ABO/Rh blood typing, antibody detection and identification, and compatibility testing necessary for successful patient blood transfusions;
3. Explain and apply techniques of quality control in all phases of analysis in labs;
4. Properly prepare, handle and use for analysis any necessary reagents, standards, and controls;
5. Analyze test results to detect and identify clinically significant blood group antibodies; and
6. Observe safety precautions for bloodborne pathogens and chemicals and display safety-conscious behavior at all times.

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

#### **MLT 205 - Immunohematology / ~~Serology~~ (4 Credits)**

This course ~~studies the theories of blood group antigens, antibodies, ABO grouping, Rh typing, cross matching, antibody screening and identification techniques as well as special emphasis on quality control.~~ **specializes in the study of the immunology and genetics of blood grouping systems and includes the principles of safe and effective transfusion practices. Laboratory procedures include routine blood typing, antibody detection and identification, antiglobulin and compatibility testing with a special emphasis on donor qualification and selection, component therapy, adverse reactions, and quality control and quality assurance. Students will learn how to correlate laboratory results with disease states and blood product use.**

#### **Prerequisite**

**MLT 110 and MLT 111**

#### **Corequisite**

Take MLT-205L.

#### **Semesters Offered**

Fall Only, All Years

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

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

1. **Describe the immunology, genetics, inheritance, and biochemistry of major and minor blood group systems.**
2. **Perform blood grouping, antibody detection and identification, and compatibility testing.**
3. **Correlate pathophysiology of hemolytic disease, anemias, and transfusion reactions with laboratory results.**
4. **Apply quality assurance principles to all aspects of the blood bank.**
5. **Evaluate donor and patient results and blood components to determine appropriate transfusion recommendations.**

**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:



# HAGERSTOWN COMMUNITY COLLEGE CURRICULUM FORM COURSE MODIFICATION CC#

Requesting Faculty: Shawnda Coon	10/08/2025
Requesting Division Director: Jeffrey Telemeco	10/13/2025
Curriculum Committee Co-Chair:	
VPAASS, Co-Chair:	