



HAGERSTOWN COMMUNITY COLLEGE CURRICULUM FORM

COURSE MODIFICATION

CC#

Prefix	Course #	Course Title	Division	Effective Term
MLT	111	Immunology & Molecular Diagnostics	HS	FA/26
Reason for Course Modification Submission				
<input checked="" type="checkbox"/> Course Change		<input checked="" type="checkbox"/> Other (explain): Updates to Course Title. Course Description, Course Outcomes, Course Credits		
<input type="checkbox"/> Reactivation of Inactive Course				
Rationale for Course Modification				
<p>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.</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 2 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>				
Please Indicate all Changes				
<input 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: 2	<input checked="" type="checkbox"/> Course Title		
<input type="checkbox"/> Course #	<input checked="" type="checkbox"/> Contact Hrs for:	<input checked="" type="checkbox"/> Load for:15		
	Lecture From: 30 To: 15	Lecture From: 30 To: 15		
	Lab From: 45 To: 45	Lab From: 33.75 To: 33.75		
	Clinical From: 0 To: 0	Clinical From: 0 To: 0		
CURRENT Course Information <i>**(Copy/Paste from Catalog)</i>				
MLT 111 - Immunology & Molecular Diagnostics (3 Credits)				
<p>This course studies serum immunity and reactions to antigens and antibodies as they apply to blood. In addition, this course discusses serologic procedures including molecular biology testing.</p> <p>Prerequisite Take BIO-116, CHM-101, and MLT-101.</p> <p>Corequisite Take BIO-205 and MLT-111L.</p> <p>Semesters Offered Spring Only, All Years</p> <p>Student Learning Course Outcomes: Upon successful completion of this course, students will be able to:</p> <ol style="list-style-type: none">1. Define terms related to molecular diagnostics;2. Explain the principle immunological test methods used in the laboratory;3. Discuss clinical implications for immunological test results;4. Identify appropriate specimen collection and handling measures for molecular diagnostics;				



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5. Classify the various molecular methodologies;
6. Discuss procedures related to molecular diagnostic classification;
7. Discuss clinical applications of molecular diagnostics; and
8. Correlate immunological and molecular findings with those generated in other components of the clinical laboratory; patient symptoms, and clinical history to make professional decisions.

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

MLT 111 - Immunology, **Serology**, & Molecular Diagnostics (**2 Credits**)

This course ~~studies serum immunity and reactions to antigens and antibodies as they apply to blood. In addition, this course discusses serologic procedures including molecular biology testing.~~

This course **covers the human immune response, including the characteristics of antigens and antibodies, cellular interactions, and complement. Laboratory procedures include agglutination reactions, precipitation reactions, labeled immunoassays, electrophoresis, and molecular diagnostic techniques. Students will learn to correlate laboratory results with disease states.**

Prerequisite

Take BIO-116, CHM-101, and MLT-101.

Corequisite

Take BIO-205 and MLT-111L.

Semesters Offered

Spring Only, All Years

Student Learning Course Outcomes:

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

1. Explain immune system physiology, including primary and secondary responses.
2. Differentiate immunoglobulin classes and their biological properties.
3. Interpret antigen-antibody reactions, serologic assays, and molecular testing methods.
4. Correlate autoimmune, hypersensitivity, immunodeficiency, and immunoproliferative disorders with serologic results and interpret serology for infectious diseases.
5. Evaluate confirmatory testing and disease-state correlations in immunology.

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: