Faculty members are required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

**DEPT.** Medical Laboratory Technician  
**COURSE NUMBER:** MDLT 1120

**NUMBER OF CREDITS:** 3  
Lecture: 2  Lab: 1

<table>
<thead>
<tr>
<th>Course Title:</th>
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<td>Immunology</td>
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<th>Catalog Description:</th>
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<td>This course introduces the student to a wide array of clinical laboratory techniques that are based on the concepts studied in immunology. The topics range from the very simple to the very complex procedures that are used in all areas of the clinical laboratory.</td>
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**FULFILLS MN TRANSFER CURRICULUM AREA(S)**

Goal 1: Communication: ____ by meeting the following competencies:

Goal 2: Critical Thinking: ____ by meeting the following competencies:

Goal 3: Natural Sciences: ____ by meeting the following competencies:

Goal 4: Mathematics/Logical Reasoning: ____ by meeting the following competencies:

Goal 5: History and the Social and Behavioral Sciences: ____ by meeting the following competencies:

Goal 6: The Humanities and Fine Arts: ____ by meeting the following competencies:

Goal 7: Human Diversity: ____ by meeting the following competencies:

Goal 8: Global Perspective: ____ by meeting the following competencies:

Goal 9: Ethical and Civic Responsibility: ____ by meeting the following competencies:

Goal 10: People and the Environment: ____ by meeting the following competencies:
Prerequisites or Necessary Entry Skills/Knowledge:
MDLT 1100 Introduction to Laboratory Science

Topics to be Covered
Natural Immunity
Lymphoid System
Antigens, Antibodies, and Major Histocompatibility Complex
Complement system
Precipitation reactions
Agglutination
Labeled immunoassays
Hypersensitivity
Autoimmunity

Student Learning Outcomes
1. Describe, define, and evaluate basic principle of immunology as it relates to the natural immune system, lymphatic system, antigens, antibodies, and complement system
2. Apply principles of safety, quality assurance, and quality control in Immunology
3. Define hypersensitivity and autoimmune diseases
4. Evaluate normal and abnormal immunological tests with associated diseases
5. Demonstrate proficiency in the skills necessary to perform immunological tests, to evaluate the immune system, within stated limits of accuracy.
6. Demonstrate proficiency in the skills necessary to perform blood typing, dilutions, and antibody titers, within stated limits of accuracy

Is this course part of a transfer pathway: Yes ☐ No ☒

Revised 01/2020