

**Western Dakota Technical Institute
800 Mickelson Drive
Rapid City, SD 57703-4018**

Master Syllabus

Course Number: MLT 215
Course Name: Immunohematology
Credits: 4
Contact Hours: 2 Lecture; 4 Lab

Course Description: The Immunohematology course is an extension of theory presented in the Immunology Course and will transition into the major concepts and principles of Blood Banking. This course will explore basic genetics, blood group systems, and antibodies, with emphasis on ABO grouping, Rh typing, antibody screening and identification, Coombs, compatibility testing, transfusion of blood components, component therapy, and donor selection.

Prerequisites: MLT 205

Grade Requirement: A minimum grade of C must be earned in this course to be eligible to graduate from the Medical Laboratory Technician Program and to progress to the MLT clinical practicum.

Textbooks: <http://bookstore.wdt.edu>

Materials: None

Student Learning Outcomes:

- Explain the foundations, principles, and applications of transfusion medicine as it relates to the human body
- Describe the major blood group systems
- Relate pre-transfusion testing, including antibody detection and identification, within the scope of the practice of a medical laboratory technician
- Explain donor selection, testing, blood component preparation, transfusion therapy, quality control, and safety issues in the blood bank

Assessment: Students' analytical skills, communication skills, technology skills, teamwork techniques, and employability will be assessed throughout this course.

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