

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

**Master Syllabus**

**Course Number:** MLT 220  
**Course Name:** Urinalysis & Body Fluids  
**Credits:** 3  
**Contact Hours:** 2 Lecture; 2 Lab

**Course Description:** This course examines the basic principles of urinalysis and kidney function. It will discuss the anatomy, physiology, and pathology of the urinary system. Physical, chemical, and microscopic examination will be performed using urinalysis procedures on both normal and abnormal specimens. Body fluid analysis will also be examined.

**Prerequisites:** HC 114

**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 basic structure and function of the kidney
- Discuss proper urine and body fluid collection, handling, and analysis
- Explain the theory and technique for performing all components of a complete urinalysis, i.e. physical, chemical, and microscopic examination
- Describe urinalysis test results with common kidney disease
- Correlate urinalysis test results with specified kidney disease(s)

**Assessment:** The core abilities of life skills, technology skills, analytical skills, employability, and communication skills will be assessed throughout this course.

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