**Course Description**

Includes performing routine phlebotomy and urinalysis procedures, and operation of related instruments in a clinical and/or on-campus laboratory setting. Laboratory 4 hours per week.

**General Course Purpose**

To provide students with the theory and technique essential for the proper collection, handling processing, and analyzing of, select laboratory blood and body fluid specimens.

**Course Prerequisites/Co-requisites**

Students entering this course must have a “C” or better grade at the mid-point of MDL 101.

**Course Objectives**

Upon completing the course, the student will be able to:

- Collect blood specimens by both venipuncture and dermal puncture with 80% success
- Demonstrate the proper approach to both in-patients and outpatients when collecting specimens.
- Demonstrate the correct procedures for collection, distribution and preservation of all laboratory specimens encountered
- Perform accurate labeling of specimens and recording of results.
- Demonstrate an attitude of concerned patient care.
- Perform qualitative and semi-quantitative chemical tests on urine.
- Perform microscopic urinalysis, identifying all constituents present
- Correlate abnormal urinary findings with disease conditions.
- Discuss the performance and calculation of quality control.
- Describe the biological principles of pregnancy testing.
- Perform slide and tube pregnancy tests as workload permits.
- Describe the procedure for collection and processing 24 hour urine specimens.
- Demonstrate initiative and ability to cooperate with the laboratory staff.

**Major Topics to be Included**

- CLSI Standards in collection, handling and processing of blood and select body fluid specimens; emphasis on routine urine specimens
- Patient safety
- Ethics professionalism and communication in the workplace