

## NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY MDL 140 – CLINICAL URINALYSIS (2 CR.)

### **Course Description**

Focuses on urinalysis studies including physical and chemical properties, microscopic techniques. Emphasizes the significance of abnormal results. Lecture 1 hour. Laboratory 3 hour. Total 4 hours per week.

### **General Course Purpose**

To provide the opportunity to perform the techniques associated with physical, chemical, and microscopic urinalysis in a simulated clinical setting and provide a relationship between urine, other body fluids, and associated diseases.

### **Course Prerequisites/Corequisites**

Students must be enrolled in the Medical Laboratory Technology AAS degree program Medical Laboratory Assistant CSC program or receive program director approval.

### **Course Objectives**

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

- Demonstrate the procedures for collection, distribution and preservation of all laboratory specimens encountered
- Perform labeling of specimens and recording of results according to CLSI standards.
- Demonstrate an attitude of concerned patient care.
- Perform qualitative and semi-quantitative chemical tests on urine using manual and automated methods
- Perform microscopic urinalysis, identifying the most common constituents present
- Correlate abnormal urinary findings with disease conditions.
- Performance quality control.
- Describe the procedure for collection and processing for select non-routine urine specimens.
- Demonstrate initiative and ability to cooperate with peers.
- Effectively Communicate processes, procedures and results in a multicultural environment

### **Major Topics to be Included**

1. CLSI Standards in handling and processing select body fluid specimens; emphasis on routine urine specimens
2. Patient safety
3. Ethics professionalism and communication in the workplace
4. Quality Control
5. Select renal function tests
6. Select urinary diseases