

## SECTION I

SUBJECT AREA & COURSE NUMBER: Medical Assisting MED\*141

COURSE TITLE: Laboratory Principles for Medical Assisting

### CATALOG COURSE DESCRIPTION

An introduction to clinical laboratory equipment, testing, and procedures commonly performed in medical settings. Course content includes documentation procedures, quality control, theory and norms of diagnostic tests. Emphasis is placed on skills mastery.

LECTURE HOURS PER WEEK: 3 CREDIT HOURS: 3

PREREQUISITE: BIO\*115, CSA\*105, MED\*170, BOT\*180

## SECTION II

### A. SCOPE

Course content will include the following:

1. Medical asepsis & infection control
2. Specimen collection & handling
3. Laboratory safety & quality control
4. Urine composition, collection, & analysis
5. Phlebotomy, venipuncture/finger puncture
6. Cardiac cycle, electrocardiograms
7. Patient instruction in the collection of specimens

### B. REQUIRED WORK

Reading assignments from the required textbook.

Homework assignments from required student mastery workbook.

Entry-level course requirement competencies

### C. ATTENDANCE AND PARTICIPATION

Regular attendance and class participation are expected.

### D. METHODS OF INSTRUCTION

As determined by instructor, may include lecture and discussion, demonstration, audio-visual tapes, group practice, and patient simulation.

**E. OBJECTIVES, OUTCOMES, and ASSESSMENT**

The following objectives and outcomes represent the department's core requirements for student achievement:

<b>LEARNING OBJECTIVES</b>	<b>LEARNING OUTCOMES</b>	<b>ASSESSMENT METHODS</b>
<b>To demonstrate an understanding of:</b>	<b>Student will:</b>	<b>As measured by:</b>
medical asepsis & infection control, laboratory safety	1.complete reading assignments 2.complete homework assignments correctly 3.practice techniques for all waste disposal, gloving, handwashing,	1.passing grade on tests 2.achievement of all entry-level competencies set by instructor
specimen collection & handling, quality control	1.complete reading assignments 2.complete homework assignments correctly 3.practice collection & testing of throat cultures	same as above
urine composition, collection, analysis, and quality control	1.complete reading assignments 2.complete homework assignments correctly 3.practice routine urinalysis (chemistry)	same as above
phlebotomy (finger puncture & venipuncture), and quality control	1.complete reading assignments 2.complete homework assignments correctly 3.practice finger puncture and hemoglobin blood testing (hematology) 4.practice venipuncture technique	same as above
cardiac cycle & an electrocardiogram	1.complete reading assignments 2.complete homework assignments correctly 3.practice reading heart rates on EKG strips 4.practice reading heart rhythms EKG strips 5.practice performing resting electrocardiogram	same as above
patient instruction in the collection of specimens	1.complete reading assignments 2.complete homework assignments correctly 3.practice instructing patients in collecting a clean catch midstream urine sample 4.practice instructing patient in collecting a fecal specimen	same as above

**F. REQUIRED TEXTS AND SUPPLIES:**

The following texts are appropriate:

Clinical Procedures for Medical Assistants, Bonewit-West, 7<sup>th</sup> Edition

Clinical Procedures for Medical Assistants Study Guide, Bonewit-West, 7<sup>th</sup> Edition

**G. REQUIRED INFORMATION TECHNOLOGY:**

None Needed