

SECTION I

SUBJECT AREA & COURSE NUMBER: Medical Assisting MED\*250

COURSE TITLE: Principles of Pharmacology

CATALOG COURSE DESCRIPTION

Principles and practices governing usage, dispensing, and storage of commonly prescribed medications, with emphasis on actions of pharmaceuticals on major body systems.

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. Mathematics and dosage calculations
2. Drug sources, schedules, and dosages
3. Forms of drugs and storage safety
4. Drug legislation and classifications
5. Pharmaceutical terminology
6. Safety and accuracy guidelines for drug preparation and administration
7. Drug agents, vitamins and minerals, and substance abuse
8. Effects of medications on body systems

B. REQUIRED WORK:

Reading assignments from the required textbook  
Homework assignments from required textbook and instructor  
Demonstrations in the preparation and administration of drugs

C. ATTENDANCE AND PARTICIPATION:

Regular attendance and class participation are expected.

D. METHODS OF INSTRUCTION:

As determined by each 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>
mathematics & dosage calculations	1.complete reading assignments 2.complete homework assignments correctly	1.passing grade on tests and/or quizzes
drug sources, schedules, and dosages	1.complete reading assignments 2.complete homework assignments correctly	same as above
drug forms & storage safety	1.complete reading assignments 2.complete homework assignments correctly	same as above
drug legislation & classifications	1.complete reading assignments 2.complete homework assignments correctly	same as above
pharmaceutical terminology	1.complete reading assignments 2.complete homework assignments correctly	same as above
drug preparation & administration guidelines	1.complete reading assignments 2.complete homework assignments correctly 3.practice withdrawing liquid from a vial and/or ampule 4.practice administering IM injections 5.practice pouring measured amount of liquid from sample bottle	1.passing grade on tests and/or quizzes 2.achievement of all entry-level competencies set by instructor
drug agents, vitamins & minerals, and substance abuse	1.complete reading assignments 2.complete homework assignments correctly	same as above
medication effects on body systems	1.complete reading assignments 2.complete homework assignments correctly	same as above

### A. REQUIRED TEXT AND SUPPLIES:

The following texts are appropriate:

Principles of Pharmacology for Medical Assisting, Jane Rice, 5<sup>th</sup> Edition

### B. REQUIRED INFORMATION TECHNOLOGY:

None Needed