



**BAKER COLLEGE**  
**STUDENT LEARNING OUTCOMES**

**MA1310A Dosage Math and Pharmacology**  
**2 Semester Hours**

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**Student Learning Outcomes & Enabling Objectives**

- 1. Recognize pharmacology concepts in the medical office setting**
  - a. Identify the classifications of medications including:
    - i. Indications for use (I.C.11.a)
    - ii. Desired effects (I.C.11.b)
    - iii. Side effects (I.C.11.c)
    - iv. Adverse reactions (I.C.11.d)
  - b. Name the four names of drugs (chemical, generic, official, trade)
  - c. Describe the factors that affect drugs in the body
  - d. Explain the purpose of a medication record and complete record
  - e. Identify the parts of a prescription
  - f. Identify and use drug reference materials
  - g. Research and identify common medications used in the ambulatory setting
  
- 2. Apply mathematical concepts to ambulatory care**
  - a. Demonstrate knowledge of basic math computations (II.C.1)
  - b. Apply mathematical computations to solve equations (II.C.2)
  - c. Define basic units of measurement in:
    - i. Metric system (II.C.3.a)
    - ii. Household system (II.C.3.b)
  - d. Convert among measurement systems (II.C.4)
  - e. Identify abbreviations and symbols used in calculating medication dosages (II.C.5)
  - f. Calculate proper dosages of medication for administration (II.P.1)

**Big Ideas and Essential Questions**

**Big Ideas**

- Foundation of pharmacology
- Mathematical foundations for administration of medications

**Essential Questions**

1. Why is it important to have a good understanding of pharmacology?
2. How do we convert among the different measurement systems in healthcare?
3. Why is it important to label the unit of measurement correctly?

4. How do medical assistants calculate the proper dosages of medication?

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These SLOs are not approved for experiential credit.

**Effective: Fall 2021**