



# BAKER COLLEGE

## STUDENT LEARNING OUTCOMES

HSC2650 Cardiovascular Pharmacology  
1 Semester Hours

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### Student Learning Outcomes & Enabling Objectives

1. Explore the fundamental principles and terminology associated with pharmacology.
  - a. Describe the role of federal laws and agencies associated with drugs safety.
  - b. Differentiate between chemical, generic, and trade names of drugs.
  - c. Explain how drugs are categorized by therapeutic class.
  - d. Interpret pharmaceutical abbreviations.
  - e. Discuss the advantages and disadvantages of commonly used drug references.
  - f. Describe the 4 processes involved in pharmacokinetics and how these processes change with age.
  - g. Define terms associated with drug actions and interactions.
  - h. Describe routes of drug administration.
  - i. Describe commonly used dosage forms.
2. Compare the methodology, advantages, and disadvantages of pharmacological and non-pharmacological cardiovascular diagnostic procedures.
3. Discuss the mechanism of action, indications, and prototypes of the following therapeutic classes of drugs.
  - a. Cardiovascular drugs
    - i. ACE inhibitors
    - ii. Angiotensin receptor blockers
    - iii. Anticoagulants
    - iv. Beta adrenergic blockers
    - v. Calcium channel blockers
    - vi. Cardiac glycosides
    - vii. Diuretics
    - viii. Nitrates
    - ix. Platelet aggregation inhibitors
    - x. Statins
  - b. Respiratory drugs
    - i. Anticholinergic inhalers
    - ii. Beta<sub>2</sub> adrenergic agonist inhalers
    - iii. Corticosteroid inhalers
  - c. Cancer drugs

- i. Antimetabolites
  - ii. Alkylating agent
  - iii. Antineoplastic antibiotics
- d. Gastrointestinal drugs
  - i. H<sub>2</sub>-blockers
  - ii. Proton pump inhibitors
- e. Antibiotics
  - i. Cephalosporins
  - ii. Macrolides
  - iii. Penicillins
  - iv. Quinolones
  - v. Sulfonamides
  - vi. Tetracyclines
- f. Anti-inflammatory and analgesic drugs
  - i. Corticosteroids
  - ii. Nonsteroidal anti-inflammatory drugs
  - iii. Opioid analgesics
- g. Sedative and hypnotic drugs
  - i. Benzodiazepines

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These SLOs are approved for experiential credit.

**Effective: Summer 2018**