The test will be made up of multiple-choice, short answer, and critical thinking questions.

Test questions will be taken from **class notes (power points) & discussions, chapter reading assignments**, and the **following journal articles**:


**Intro to Pharmacology**
- drug nomenclature
- drug classification
- pharmacodynamics vs. pharmacokinetics
- routes of drug administration
- ADME process of pharmacokinetics & the effect of exercise on each phase
- drug dosing & potency
- drug interactions
- adverse drug interactions

**NAIDs**
- physiology of inflammation
- NSAID effects
- role of prostaglandins
- COX -1 and COX-2 pathways
- difference between COX-2 selective NSAIDs and COX nonselective NSAIDs (be able to list 2-3 examples of each)
- adverse effects of NSAIDs
- cautions associated with the use of NSAIDs
- drug interactions

**Corticosteroids**
- chemical make-up: lipid soluble hormone
- general indications
- routes of administration
- side effects & adverse reactions (generally and by route of administration)
Non-Orthopedic Medications
proper use of meds
oral meds
patches
inhalers
ophthalmic drops/ointment
nasal drops/sprays
otic drops
suppositories
cough, cold & allergy products (be able to identify the more commonly used meds in each of the categories)
antihistamines
decongestants
expectorants & mucolytics
zinc
external analgesic products
counterirritants
liniments
gels
ointments
lotions
antibiotics (be able to identify the more commonly used drugs in this category)
antibacterials
antifungals

Performance Enhancing Drugs
human growth hormone
androgenic-anabolic steroids
erthropoietin
androstenedione

Sample Questions:
1. Which of the following medications would have the longest lasting effects?
   a. controlled substances  
   b. lipid soluble drugs  
   c. water soluble drugs  
   d. prescription drugs

2. Which of the following types of medications are administered enterally.
   a. inhalers  
   b. topical  
   c. oral  
   d. injections

3. Which of the following is a common side effect associated with taking guaifenesin?
   a. nausea  
   b. drowsiness  
   c. nervousness  
   d. hoarseness

4. Explain the pharmacodynamics of creatine supplements.

5. Describe the effect prostaglandins have on the cyclooxygenase (COX) pathway.