A. **TITLE**: Pharmacology III

B. **COURSE NUMBER**: NURS 200

C. **CREDIT HOURS**: 1

D. **WRITING INTENSIVE COURSE**: No

E. **COURSE LENGTH**: 15 weeks

F. **SEMESTER(S) OFFERED**: Spring

G. **CREDIT HOURS, LABORATORY, RECITATION, TUTORIAL, ACTIVITY**: 1 hour of lecture each week

1 credit = 1 hour lecture or 3 hours lab or 3 hours of clinical per week

H. **CATALOG DESCRIPTION**:

This course explores classifications of drugs used to treat fluid and electrolyte imbalances, infection and cancer. Additionally, drugs used in the treatment of respiratory gastro-intestinal, and endocrine disorders will be discussed.

I. **PRE-REQUISITES/CO-REQUISITES**:

**PRE/CO-REQUISITES**:
- NURS 104: Pharmacology II
- NURS 106: Maternal Child Nursing
- NURS 107: Mental Health Nursing

J. **GOALS (STUDENT LEARNING OUTCOMES)**:

By the end of this course, the student will be able to:

<table>
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<tr>
<th>Course Student Learning Objective (SLO)</th>
<th>Institutional SLO</th>
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<tbody>
<tr>
<td>a. Apply the nursing process to case studies involving patients receiving drugs used to treat skin, neuromuscular, cancer, respiratory, gastrointestinal, fluid and electrolyte, and blood disorders, antibiotics, antivirals, and other drugs impacting the human immune system.</td>
<td>Communication</td>
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<td>Critical Thinking.</td>
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<td>Professional</td>
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<td>Competence</td>
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<td>Inter/Intrapersonal Skills</td>
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<tr>
<td>b. Discuss major classifications of pharmacotherapeutics by prototypes as used in the treatment of commonly occurring health challenges for each major classification of drugs.</td>
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c. Analyze various medications for drug-drug, drug-food, and drug-herbal interactions that may contribute to negative patient outcomes.

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</tbody>
</table>

A. **TEXTS:**

B. **REFERENCES:** None

C. **EQUIPMENT:** Portable computer with internet access

D. **GRADING METHOD:** A-F

E. **MEASUREMENT CRITERIA/METHODS:**
   - Quizzes
   - Exams
   - Case Studies

P. **DETAILED COURSE OUTLINE:**

I. Drugs Affecting the Neuromuscular System
   A. Centrally Acting Muscle Relaxants
   B. Antispasmodics

II. Diuretics
   A. Loop diuretics
   B. K+ sparing diuretics
   C. Thiazide diuretics
   D. Misc. diuretics

III. Chemotherapeutics
   A. Alkylating agents
   B. Antimetabolites
   C. Antitumor antibiotics
   D. Plant extracts
   E. Hormones and hormone antagonists
   F. Glucocorticoids
   G. Gonadal hormones
   H. Biologic response modifiers

IV. Drugs used Allergic Rhinitis and the Common Cold
   A. H1- Receptor antagonists
   B. Antihistamines
   C. Intranasal glucocorticoids
   D. Decongestants
E. Antitussives
F. Expectorants/mucolytics
V. Drugs used for Asthma and other Pulmonary Disorders
   A. Beta-adrenergic agonists
   B. Anticholinergic
   C. Methylxanthines
   D. Glucocorticoids
   E. Leukotriene modifiers
   F. Mast cell stabilizers
VI. Drugs for Peptic Ulcer Disease
    A. H2-Receptor Antagonists
    B. Proton Pump inhibitors
    C. Antacids
    D. Antibiotics for H. Pylori
VII. Drugs for Bowel and other GI Conditions
     A. Laxatives
     B. Antidiarrheal
     C. Antiemetic
     D. Anorexiants
     E. Pancreatic enzymes
VIII. Drugs used for Bacterial Infections
      A. Penicillin
      B. Cephalosporin
      C. Tetracycline
      D. Macrolides
      E. Aminoglycosides
      F. Fluoroquinolones
      G. Sulfonamides
      H. Antituberculosis Agents
IX. Drugs used for Viral Infections
    A. Reverse Transcriptase Inhibitors
    B. Protease inhibitors
    C. Drugs used to treat Influenza
    D. Drugs used to treat Herpes
X. Drugs used for Fungal, Protozoal, and Helminthic Infections
   A. Azoles
   B. Antimalarial agents
   C. Drugs for helminthic infections
XI. Drugs used for F&E, Acid-Base Imbalances
    A. Fluid Replacement Agents
    B. Electrolytes
    C. Acid-Base Balance Restoring Agents
    D. Diuretics
Q. **LABORATORY OUTLINE:** NA