A. **TITLE:** Pharmacology IV

B. **COURSE NUMBER:** NURS 204

C. **CREDIT HOURS:** 1

D. **WRITING INTENSIVE COURSE:** No

E. **COURSE LENGTH:** 15 weeks

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

G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:** 1 hour of lecture each week. Note: 1 credit = 50 minutes of lecture per week

H. **CATALOG DESCRIPTION:** This course explores nursing care associated with the classifications of drugs used to treat cardio-vascular, blood, sensory, neurological, immune, and skin disorders. In addition, drugs used in the emergency setting will be examined.

I. **PRE-REQUISITES/CO-REQUISITES:**
   - NURS 200 Pharmacology III
   - NURS 201 Medical Surgical Nursing I
   - NURS 202 Medical-Surgical Nursing

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

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

<table>
<thead>
<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 cardio-vascular, blood, sensory, neurological, immune, and skin disorders; and those in the emergency setting.</td>
<td>Critical Thinking Professional Competence Inter/Intrapersonal Skills</td>
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<tr>
<td>b. Identify major classifications of pharmacotherapeutics by prototypes as used in the treatment of commonly occurring health challenges for each major classification of drugs.</td>
<td>Critical Thinking Professional Competence Inter/Intrapersonal Skills</td>
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<tr>
<td>c. Analyze various medications for drug-drug, drug-food, and drug-herbal interactions that may contribute to negative patient outcomes.</td>
<td>Critical Thinking Professional Competence Inter/Intrapersonal Skills</td>
</tr>
</tbody>
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K. **TEXTS:**


L. **REFERENCES:** None

M. **EQUIPMENT:** Technology enhanced classroom

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

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

P. **DETAILED COURSE OUTLINE:**

I. Drugs Used for Skin Disorders/Injury
   - A. Burns
   - B. Acne
   - C. Psoriasis
   - D. Pediculosis
   - E. Scabies

II. Drugs for Blood Disorders
   - A. Hematopoietic Growth Factors
   - B. Colony-stimulating factors
   - C. Platelet enhancers
   - D. Vitamin B-12 and Folic Acid
   - E. Iron therapy

III. Drugs for Coagulation Disorders
   - A. Anticoagulants
   - B. Antiplatelets
   - C. Thrombolytics
   - D. Hemostatics

IV. Drugs for Lipid Disorders
   - A. HMG-CoA Reductase Inhibitors/Statins
   - B. Bile Acid Resins
   - C. Nicotinic Acid
   - D. Fibric Acid Agents
E. Cholesterol Absorption Modifiers

V. Antihypertensives
   A. Diuretics
   B. Calcium Channel Blockers
   C. ACE-inhibitors
   D. Beta-blockers
   E. Vasodilators
   F. Miscellaneous

VI. Drugs for Heart Failure
   A. ACE Inhibitors
   B. Diuretics
   C. Beta-blockers
   D. Vasodilators
   E. Cardiac Glycosides
   F. Phosphodiesterase Inhibitors

VII. Drugs for Angina and MI
   A. Organic Nitrates
   B. Beta-blockers
   C. Calcium Channel Blockers
   D. Thrombolytic

VIII. Drugs used for Dysrhythmias
   A. Sodium Channel Blockers
   B. Beta-blockers
   C. Potassium Channel Blockers
   D. Calcium Channel Blockers

IX. Drugs used for Shock
   A. Fluid Replacement Agents
   B. Vasoconstrictors/Vasopressors
   C. Inotropics

X. Drugs used for Seizures
   A. Drugs that potentiate GABA
   B. Drugs that suppress Calcium Influx

XI. Drugs for Degenerative Diseases of the Nervous System
   A. Parkinson Disease Agents
   B. Alzheimer’s Disease Agents
   C. Miscellaneous agents

XII. Emergency Preparedness
   A. Anthrax
   B. Viruses
   C. Toxic Chemicals
   D. Ionizing Radiation

XIII. Drugs for Immune System Modulation
   A. Vaccines
   B. Immunosuppressant
   C. Immunostimulants

XIV. Drugs for Sensory Disorders
A. Ophthalmic Agents
B. Otic Agents

Q. **LABORATORY OUTLINE:** None