REGISTERED NURSING PROGRAM

NURSING 82P- PHARMACOLOGY II

SYLLABUS

UNITS:
1.5 units (1.5 hours of theory per week).

PREREQUISITES FOR THE REGISTERED NURSING PROGRAM:
Nursing 81 and Nursing 81L; or Nursing 81N and Nursing 81NL, and Nursing 81P.
Co-requisites: Nursing 82 and Nursing 82L

FOREWORD:
Pharmacology II is a 1.5 unit course taken concurrently with Nursing 82 and Nursing 82L (for students enrolled in the Registered Nursing Program). The focus of this course is to provide the student a sound basis of pharmacology for entry into acute care nursing.

As evidenced by the course objectives, the student will continue to incorporate concepts of pharmacology into De Anza College’s Associate Degree Nursing Program. Legal and ethical issues and safety principles will be stressed throughout this course as an integral part of nursing practice. The Registered Nurse students will integrate basic conceptual principles in the natural and behavioral sciences. In addition, the Registered Nurse student will be responsible for a high level of synthesis and analysis related to the client with fluctuating acuities. The Registered Nurse scope of practice, critical thinking and problem solving will be employed and developed through group exercises and independent study.

Teaching/learning principles will be expanded to assist the student to use effective techniques in self-care. Orem’s model is used as a basis for all client interactions and is integrated into this nursing process. The student will also incorporate principles of medical and surgical asepsis in the safe administration of medications by non-parenteral and parenteral routes.
COURSE OBJECTIVES

1. Apply principles of medication therapy in meeting health deviation self-care requisites.

Theory objectives

1.1 Review principles of medication therapy related to infection processes.
1.2 Review principles of medication therapy related to selected health deviation.
   1.21 Absorption
   1.22 Transformation
   1.23 Biotransformation
   1.24 Excretion

2. Examine the role of the nurse in pharmacology

Theory objectives:

2.1 Indicate specific nursing implications and proper sources for parenteral medication administration.

3. Examine the legal-ethical implications to medication therapy.

Theory objectives:

3.1 Evaluate the legal aspects of parenteral pharmacology
   3.11 Safety
   3.12 Effectiveness

3.2 Discuss the ethical dilemmas in medication administration
   3.21 Rights versus safety
   3.22 Pain and suffering

4. Relate medication therapy to the nursing process in meeting self-care requisites

Theory objectives:

4.1 Demonstrate the application of each component of the nursing process in medication administration
   4.11 Assessment
   4.12 Nursing Diagnosis
   4.13 Goals
   4.14 Interventions
   4.15 Evaluation
TOPICAL COURSE OUTLINE:
Topics are arranged by week of presentation

WEEK 1 and 2

1. Principles of all medication therapy in meeting health deviation self-care requisites.
   1.1  Review of infection process
   1.2  Steps in Nursing Process

2. Principles of parenteral medication therapy related to selected health deviation.
   2.1  Absorption
   2.2  Transformation
   2.3  Biotransformation
   2.4  Excretion

3. Legal implications to medication administration.
   3.1  Legal aspects of non-parenteral medication administration
   3.2  Legislative and authoritative sources for drug standards

4. Ethical implications of medication administration.
   4.1  Discuss the ethical dilemmas in medication administration
       4.1.1 Rights versus safety
       4.1.2 Pain and suffering

5. The bio-psychosocial aspects of pharmacology
   5.1  Client compliance and independence
   5.2  Presentation of information to the client

WEEK 2

1. Evaluate effects of meds used for the treatment of:
   1.1  Infections
       1.1.1  Describe the general characteristics of anti-microbial meds
       1.1.2  Describe major classifications of anti-microbial meds
       1.1.3  Discuss principles of meds therapy that relate to anti-microbial meds
       1.1.4  Explain nursing actions with rationale to anti-microbial meds
WEEK 3

1. Evaluate effects of meds for the treatment of:

   1.1 Relief of pain
      1.1.1 Describe the general characteristics of opioids used to relieve pain
      1.1.2 Discuss principles of medication therapy that relate to these meds
      1.1.3 Explain nursing actions with rationale for each of these meds
      1.1.4 Describe client teaching activities relative to these meds
      1.1.5 Discuss drugs and substance abuse

WEEK 4 and 5

1. Evaluate the effects of meds used for the treatment of:
   1.1 The Cardiovascular System:
      1.1.1 Describe the major classifications of meds that affect the cardiovascular system
         1.1.1.1 Antihypertensive medications
         1.1.1.2 Medications used in hypotension and shock
         1.1.1.3 Anticoagulants, antiplatelets, and thrombolytic agents
      1.1.2 Discuss principles of meds therapy that relate to meds that affect the cardiovascular system
      1.1.3 Explain nursing actions, with rationale for each, for the cardiovascular system
      1.1.4 Describe client teaching activities relative to the cardiovascular system

WEEK 6

MIDTERM

WEEK 7

1. Evaluate the effects of meds used for the treatment of:
   1.1 The Endocrine System
      1.1.1 Describe the major classification of meds that affect the endocrine system:
         1.1.1.1 Hypothalamic and Pituitary hormones
         1.1.1.2 Hormones that regulate calcium and phosphorus metabolism
         1.1.1.3 Anti-diabetic meds
1.1.2 Discuss principles of meds therapy that relate to the endocrine system
1.1.3 Explain nursing actions, with rationale for each, for the endocrine system meds
1.1.4 Describe client teaching activities relative to endocrine system meds.

WEEK 8 and 9
1. Evaluate effects of meds used for the treatment of:
   1.1 The Gastrointestinal System
      1.1.1 Describe the major classification of meds that affect the digestive system
          1.1.1.1 Antacids and Anti-flatulents
          1.1.1.2 Laxative and Cathartics
      1.1.2 Discuss principles of meds that relate to the digestive system
      1.1.3 Explain nursing actions, with rationale for each, for the digestive system meds
      1.1.4 Describe client teaching activities relative to the digestive system meds
   1.2 Nutrition
      1.2.1 Describe the major classification of meds affecting nutrition
          1.2.1.1 Total Parenteral Nutrition
          1.2.1.2 Peripheral Parenteral Nutrition
      1.2.2 Discuss principles of meds therapy that relate to nutrition
      1.2.3 Explain nursing actions with rationale for each nutritional med
      1.2.4 Describe client teaching activities relative to meds affecting nutrition

WEEK 9 and 10
1. Evaluate effects of meds used for the treatment of:
   1.1 Nervous and Musculoskeletal Systems
      1.1.1 Describe client teaching activities relative to meds affecting the autonomic nervous system and central nervous systems
      1.1.2 Describe the major classification of meds that affect the autonomic nervous system
      1.1.3 Discuss principles of meds therapy that relate to the autonomic nervous system
      1.1.4 Explain nursing actions, with rationale for each, for autonomic nervous system meds
      1.1.5 Describe the major classification of meds that affect the Central Nervous System:
          1.1.5.1 Anticonvulsants
1.1.5.2 Antiparkinson medications
1.1.5.3 Skeletal Muscle Relaxants
1.1.6 Explain Nursing actions, with rationale for each for CNS meds.

WEEK 10
1. Evaluate the effects of meds used for the treatment of:
   1.1 Neoplastic Diseases:
      1.1.1 Describe the major classifications of antineoplastic meds:
         1.1.1.1 Nitrosureas
         1.1.1.2 Hormones
         1.1.1.3 Radioactive iodine
      1.1.2 Discuss principles of meds therapy that relate to these drugs
      1.1.3 Explain nursing actions, with rationale each, for these meds
      1.1.4 Describe client teaching activities relative to antineoplastic meds

WEEK 11
1. Evaluate the effects of meds used for the treatment of:
   1.1 The Reproductive System
      1.1.1 Describe the major classifications of meds that affect the reproductive system
         1.1.1.1 Male sex hormones including androgen and anabolic agents
      1.1.2 Discuss principles of meds therapy that relate to the reproductive system
      1.1.3 Explain nursing actions, with rationale each, for the reproductive system meds.
      1.1.4 Describe client teaching activities relative to these meds

WEEK 12

FINAL EXAM

STUDENT EXPECTATIONS:

1. Students are to be familiar with the published guidelines for performance and abide by the guideline at all times.

2. Students are to read assigned material and be prepared for all classroom sessions.

3. Students are expected to demonstrate retention of previously learned objectives and incorporate theory principles in all interactions.
4. Students are expected to transfer theory from required courses in the natural and behavioral sciences as well as speech and English into the applied science of nursing.

REFERENCES:

REQUIRED:

4. A drug reference handbook or a packet of drug cards (purchase before the medication experience.
5. A medical or medical/nursing dictionary
6. Syllabus for Nursing 82 P

REFERENCES:


GRADING SCALE:

A = 90 -100%
B = 80 - 89.99%
C = 70 – 79.99%