

San Bernardino Valley College

Course Outline for NURS 110
MEDICAL-SURGICAL NURSING II

I. CATALOG DESCRIPTION

NURS 110, Medical-Surgical Nursing II

3.25 hours lecture, 6.75 hours laboratory = 5.5 units

Second level medical-surgical nursing focusing on the physiological, psychological, sociocultural, and developmental variables as they relate to selected alterations in oxygenation, digestion and bowel elimination, metabolism, and cerebral/peripheral neurological innervation subsystems.

Application of the nursing process to assist clients to attain and maintain their optimum level of wellness.

SCHEDULE DESCRIPTION

Second level medical-surgical nursing focusing on alterations in oxygenation, digestion and bowel elimination, metabolism, and neurological innervation subsystems.

PREREQUISITE: NURS 104 with a grade of C or better

II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT: One

III. EXPECTED OUTCOMES FOR STUDENTS

Upon completion of the course, the student should be able to:

- A. Discuss and apply theoretical concepts related to the physiological, psychological, sociocultural, and developmental variables to clients with selected alterations in oxygenation, digestion and bowel elimination, metabolism, and cerebral/peripheral neurological innervation.
- B. With guidance, use the nursing process to assist clients with level II medical-surgical alterations attain or maintain an optimum level of wellness.
- C. Thoroughly assess the physiological, psychological, sociocultural, and developmental variables using all available resources. Collect, organize, and document the database; differentiate between normal and abnormal assessment findings; formulate prioritized nursing diagnoses; set goals in collaboration with the client; plan and implement primary/secondary/tertiary nursing interventions; and evaluate client outcomes.
- D. Identify the cumulative effects of age-related changes and pathological stressors on elder adult clients.
- E. Develop and implement basic teaching plans based on clients' individual needs and level of wellness.
- F. Use therapeutic communication techniques with clients. Effectively communicate with health care team members, using appropriate lines of authority.
- G. Collaborate with the health care team to facilitate implementing the plan of care and reduce stressors that may affect clients' lines of defense and resistance.
- H. Perform first and second level medical-surgical nursing skills/procedures adhering to the underlying principles of client safety, organization and asepsis.
- J. Accurately calculate drug dosages, applying knowledge of pharmacology to safe administration of medications by all routes.

IV. CONTENT

- A. Oxygenation, digestive/bowel, metabolic, and neurological innervation assessment
 - 1. Diagnostic tests
 - 2. Physiological assessment methods/techniques
- B. Nursing care of clients with oxygenation alterations
 - 1. Obstructive/restrictive pulmonary disease
 - 2. Pneumonia
 - 3. Tuberculosis
 - 4. Pleural effusion
 - 5. Pneumothorax
 - 6. Lung cancer
 - 7. Upper airway carcinomas
 - 8. Airway management
- C. Nursing Care of Clients with Digestion and Bowel Elimination alterations
 - 1. Stomach disease (Peptic Ulcer, Stomach cancer)
 - 2. Pancreatic disease (Pancreatitis, Pancreatic Cancer)
 - 3. Gallbladder disease (Cholelithiasis)
 - 4. Bowel Disease (Inflammation, obstruction, cancer)
 - 5. Peritonitis
 - 6. Liver disease (Cirrhosis, Hepatitis)
 - 7. Clinical Nutrition
- D. Nursing Care of Clients with Metabolic alterations
 - 1. Diabetes mellitus
 - 2. Diabetic complications
- E. Nursing Care of Clients with Cerebral/Peripheral Neurological Innervation alterations
 - 1. Eye/ear alterations (Glaucoma, Cataracts, Retinal Detachment, Meniere's Disease, hearing loss, Otosclerosis, Otitis media)
 - 2. Cerebral Vascular Accident
 - 3. Parkinson's Disease
 - 4. Multiple Sclerosis
 - 5. Brain tumor
 - 6. unconscious client
 - 7. Seizure disorders
- F. Intravenous therapy
 - 1. Assessment
 - 2. Regulation
 - 3. Identify, prevent, and manage complications
 - 4. Infusion pumps/controllers
- G. Second level medical-surgical nursing skills/procedures
 - 1. Intravenous piggyback medication administration
 - 2. Heparin/saline lock flush & conversion
 - 3. Oral, nasal, tracheal suctioning
 - 4. Tracheostomy care
 - 5. Oral & nasal airway placement
 - 6. Nasogastric tube placement
 - 7. Colostomy care, irrigation
- V. METHODS OF INSTRUCTION
 - A. Lecture
 - B. Demonstration/return demonstration
 - C. Discussion
 - D. Readings, handouts
 - E. Media, computer programs
 - F. Written Assignments
 - G. Case analysis

- H. Student-teacher conferences
- I. Supervised laboratory practice

VI. TYPICAL ASSIGNMENTS

- A. Obtain data and complete a Lab Preparation Worksheet prior to nursing care of hospitalized clients.
- B. Complete Medication Worksheet consulting the Medication Administration Record and doctor's orders. Enter current, pertinent laboratory test values related to medications.
- C. Written Nursing Care Plans on assigned clients with second level alterations
- D. Preparation for and nursing care of assigned clients in the hospital laboratory
- E. Respiratory Therapy & Gastrointestinal Lab observation field trip
- F. Return demonstration of essential elements of second level nursing skills/procedures

VII. EVALUATION

- A. Methods of evaluation
 - 1. Examinations: objective
Typical examination question:
Which of the following assessment findings is considered normal auscultation of the lungs during ventilation?
 - a. Low pitched, soft swishing sounds in peripheral parts of the lungs
 - b. Musical, whistle-like sound over trachea and anterior chest wall
 - c. Loud, high-pitched hollow sounds over bases of the lungs
 - d. Bubbling or rumbling sounds in upper lung fields
 - 2. Graded written Nursing Care Plans (according to second level criteria)
 - 3. Nursing skills performance (complete all critical elements)
 - 4. Oral report of Respiratory Therapy & Gastrointestinal Lab observation visit (completion of stated objectives)
 - 5. Laboratory performance (according to hospital laboratory second level criteria)
- B. Frequency of evaluation
 - 1. 3 unit exams and one final
 - 2. Weekly short form nursing care plans and one full care plan throughout course
 - 3. Oral report following observation experience
 - 4. Laboratory performance evaluation at mid-term and final

VIII. TYPICAL TEXT(S)

Copstead, L., Perspectives on Pathophysiology, Philadelphia: W.B. Saunders Co., 1995.

Curren and Monday, Math for Meds, Dosage and Solutions, San Diego: W.I. Publishing., 1995.

Deglin, J. and A. Vallerand., Davis' Drug Guide for Nurses, 5th ed., Philadelphia: F. A. Davis Co., 1997.

Dudek, S.G., Nutrition Handbook for Nursing Practice, 3rd ed., Philadelphia: Lippincott, 1997.

Ignatavicius, D, et. al., Medical-Surgical Nursing Across the Health Care Continuum, 3rd ed., Philadelphia: W. B. Saunders Co., 1999.

- IX. OTHER SUPPLIES REQUIRED OF STUDENTS: uniform, stethoscope, bandage scissors