

NURN 160

Nursing Concepts I

6 credits: 3.5 credits lecture and 2.5 credits lab/clinical

Community College of Baltimore County Common Course Outline

Description

NURN 160 – Nursing Concepts I: students examine the role of the nurse generalist in the care of patients in acute care settings. NURN 160 is the first in a sequence of three Medical-Surgical courses in the Nursing Program. Students build upon their knowledge from previous health-related courses such as anatomy and physiology, chemistry, microbiology, and Fundamentals of Nursing. Emphasis is placed on the nursing program concepts of fluid and electrolytes, acid-base balance, perfusion, gas exchange, and metabolism. Supervised simulations and clinical are designed to increase students' knowledge and experience in adult patient care and to develop clinical reasoning skills.

Pre-requisites: NURN 153 (with a grade of C or higher) and NURN 155 (with a grade of C or higher)

Overall Course Objectives

Upon completion of this course, students will be able to:

1. apply clinical judgment while using the nursing process to meet the needs of acute care clients with emphasis on fluid and electrolytes, acid-base balance, perfusion, gas exchange, and metabolism;
2. identify abnormalities when performing focused client assessments;
3. communicate information interprofessionally using both oral and written/electronic methods;
4. design client-centered health promotion and disease management teaching plans for those with alterations in fluid and electrolytes, acid-base balance, perfusion, gas exchange, and metabolism;
5. apply principles of fluid and acid-base balance in the provision of quality client care;
6. use the nursing process to develop a plan of care for clients with abnormalities in fluid and electrolytes, acid-base balance, perfusion, gas exchange, and metabolism;
7. demonstrate safe administration of intravenous fluids and medications for multiple clients;
8. apply pharmacodynamic principles when administering medications;
9. provide safe and effective nursing care, using evidence-based practice, for clients with alterations in fluid and electrolytes, acid-base balance, perfusion, gas exchange, and metabolism; and
10. evaluate the overall progress of the client in achieving desired outcomes.

Major Topics

- I. Acid-base balance
 - a. Metabolic

- i. Acidosis
 - ii. Alkalosis
 - b. Respiratory
 - i. Acidosis
 - ii. Alkalosis
- II. Caring interventions
 - a. Pharmacology
 - b. Psychomotor skills
 - i. Intravenous infusions – crystalloids, colloids, nutrition
 - ii. Intravenous medication administration
 - iii. Intramuscular and subcutaneous medication administration
 - iv. Blood transfusion
 - v. Tracheostomy care and suctioning
 - vi. Airways
 - vii. Chest tube management
- III. Clinical judgment
 - a. Assessment and management of care for multiple patients
 - b. Pharmacology related to course concepts
- IV. Fluid and electrolytes
 - a. Fluid volume
 - i. Deficit
 - ii. Excess
 - b. Electrolyte balance
- V. Gas exchange
 - a. Related to infection
 - i. Pneumonia
 - ii. Tuberculosis
 - b. Chronic issues
 - i. Chronic Obstructive Pulmonary Disease (COPD)
 - ii. Asthma
- VI. Metabolism
 - a. Diabetes mellitus
 - b. Thyroid function issues
 - i. Hypothyroidism
 - ii. Hyperthyroidism
 - c. Adrenal function issues
 - i. Adrenal insufficiency
 - ii. Adrenal hyperfunction
- VII. Safety
 - a. Medication administration for multiple patients
 - b. Safe administration of intravenous therapies
- VIII. Perfusion
 - a. Hypertension (HTN)
 - b. Heart Failure (HF)
 - c. Deep Vein Thrombosis (DVT)
 - d. Peripheral Vascular Disease (PVD)

The Common Course Outline (CCO) determines the essential nature of each course.

For more information, see your professor's syllabus.

- e. Atherosclerosis
- f. Endocarditis
- g. Anemia

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- 4 theory examinations
- 4 quizzes/assignments
- 1 proctored standardized exam
- 2 writing assignments, such as a nursing process assignment and a patient teaching project

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the style selected by their professor.

Other Course Information

The following are required for satisfactory completion of this course:

- attendance at all assigned clinical/laboratory experiences
- satisfactory completion of all assignments
- satisfactory performance in the clinical experience
- satisfactory performance on all nursing skills tests
- an exam average of 75.00% or higher
- an overall grade of C (75.00%) or higher

revised 9/17/2019