

Virginia Western Community College

NSG 252

Complex Health Concepts

Semester 4

Prerequisites: NSG 210: Health Care Concepts I; NSG 211: Health Care Concepts II, Nursing Elective

Co-requisites: NSG 230: Advanced Professional Nursing Concepts; NSG 270: Nursing Capstone

Pre/co requisite: PHI 220: Ethics

Course Description

Focuses on nursing care of diverse individuals and families integrating complex health concepts.

Emphasizes clinical judgment, patient-centered care and collaboration.

Lecture 4 hours. Total 4 hours per week.

Semester Credits: 4

Lecture Hours: 4

Lab/Clinical/Internship Hours: 0

Required Materials

1. CoursePoint for Concepts 6 book library year 2 – ISBN: 9781975115753
2. vSim for Maternity/Pediatrics. Lippincott - ISBN: 9781975197841
3. Kaplan

Supplementary Materials:

Kaplan Resources

Course Student Learning Outcomes

Upon completing the course, the student will be able to:

1. Provide patient-centered care promoting therapeutic relationships, caring behaviors, and self-determination across the lifespan for diverse populations of individuals with complex health needs.
2. Practice safe nursing care that minimizes risk of harm across systems and client populations with complex health needs.
3. Demonstrate nursing judgment through the use of clinical reasoning, the nursing process, and evidence based practice in the provision of safe, quality care for clients with complex health needs
4. Practice professional behaviors that encompass the legal/ethical framework while incorporating self-reflection, leadership and a commitment to recognize the value of life-long learning
5. Manage client care through quality improvement processes, information technology, and fiscal responsibility to meet client needs and support organizational outcomes.
6. Demonstrate principles of collaborative practice within nursing and interdisciplinary teams fostering mutual respect and shared decision-making to achieve optimal outcomes of care.

Topical Description

Major topics to be included:

1. Fluid & Electrolyte Concept

- Fluid and electrolyte principles
 - Risk factors related to altered fluid and electrolyte levels
 - Prevention of altered fluid and electrolyte levels
 - Fluid and electrolyte diagnostic testing
 - Nursing process related to altered fluid and electrolyte levels
 - Exemplars: acute & chronic renal failure
2. Acid-Base Concept
- Acid-base principles
 - Risk factors related to altered acid-base balance
 - Prevention of altered acid-base balance
 - Acid-base diagnostic testing
 - Nursing process related to altered acid-base balance
 - Exemplars: metabolic acidosis and alkalosis, respiratory acidosis and alkalosis
3. Intracranial Regulation Concept
- Intracranial regulation principles
 - Risk factors related to altered intracranial regulation
 - Prevention of altered intracranial regulation
 - Intracranial regulation diagnostic testing
 - Nursing process related to altered intracranial regulation
 - Pharmacological interventions: anti-epileptic drugs, anti-Parkinson drugs
 - Exemplars: Cerebral Vascular Accident (CVA), seizures: child & adult
4. Mobility Concept
- Mobility principles
 - Risk factors related to altered mobility
 - Prevention of altered mobility
 - Mobility diagnostic testing
 - Nursing process related to altered mobility
 - Exemplars: spinal cord injury (adult), spina bifida (pediatric), Parkinson's disease
5. Inflammation Concept
- Inflammatory principles
 - Risk factors related to altered inflammation
 - Prevention of altered inflammation
 - Inflammation diagnostic testing
 - Nursing process related to altered inflammation
 - Exemplars: hepatitis, cirrhosis, pancreatitis
6. Infection Concept
- Infection principles
 - Risk factors related to infection
 - Prevention of infection
 - Infection diagnostic testing
 - Nursing process related to infection
 - Exemplars: sepsis, Systemic Inflammatory Response Syndrome (SIRS) (pediatric)
7. Tissue Integrity Concept
- Tissue integrity principles
 - Risk factors related to altered tissue integrity
 - Prevention of altered tissue integrity

Tissue integrity diagnostic testing
Nursing process related to altered tissue integrity
Pharmacological interventions: topical treatment of burns
Exemplars: burns

8. Perfusion Concept

Perfusion principles
Risk factors related to altered perfusion Prevention of altered perfusion
Perfusion diagnostic testing
Nursing process related to altered perfusion
Hemodynamic monitoring
Chest tube management
Pharmacological interventions: anti-arrhythmic drugs, thrombolytic drugs,
adrenergic drugs, anticholinergic drugs
Exemplars: shock/Multiple Organ Dysfunction Syndrome (MODS), arrhythmias, congenital
defects (infant/child)

9. Gas Exchange Concept

Gas exchange principles
Risk factors related to altered gas exchange
Prevention of altered gas exchange
Gas exchange diagnostic testing
Nursing process related to altered gas exchange
Ventilation: mechanical, continuous positive airway pressure, bilevel airway pressure
Exemplars: Acute Respiratory Distress Syndrome (ARDS), pneumothorax

Note to Instructors