

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

Textbooks:

CoursePoint Premium second year access code. **ISBN: TBA**

Brunner & Suddarth's Text of Medical-Surgical Nursing. Hinkle, Janice L. 14th Edition.
ISBN: 9781496355157

Fundamentals of Nursing. Taylor. 8th Edition. ISBN: 9781451185614

Maternity & Pediatric Nursing. Ricci, Susan S. 3rd Edition. ISBN: 9781451194005

Focus on Nursing Pharmacology. Karch. 7th Edition. ISBN: 9781496318213

Psychiatric Mental Health Nursing. Videbeck. 7th Edition. ISBN: 9781975111786

Essentials of Pathophysiology. Porth. 4th Edition. ISBN: 9781451190809

Health Assessment in Nursing. Weber, Janet R. & Kelley, Jane H. 6th Edition. ISBN: 9781496344380

Leadership Roles and Management Functions in Nursing. Marquis. 9th Edition. ISBN: 9781496349798

vSim for Maternity/Pediatrics. Lippincott. ISBN: 9781496327819

vSim for Mental Health. Lippincott. ISBN: 9781496397331

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