

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: NSG 252

Credits: 4

Course Title: Complex Health Care Concepts

Course Description:

Focuses on nursing care of diverse individuals and families integrating complex health concepts. Emphasizes clinical judgment, patient-centered care and collaboration. Prerequisites: ENG 112, NSG 210, and NSG 211 with grades of C or above. Co-requisites: CST 229 or PHI 101 or PHI 220 or PHI 225 or PHI 227; NSG 230, and NSG 270. Lecture 4 hours per week.

General Course Purpose:

The purpose of this course is to apply complex health concepts that relate to the client and family across the lifespan.

Course Prerequisites and Co-requisites:

Prerequisites: ENG 112, NSG 210, and NSG 211 with grades of C or above

Co-requisites: CST 229 or PHI 101 or PHI 220 or PHI 225 or PHI 227; NSG 230, and NSG 270

Course Objectives:

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 lifelong 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.

Major Topics to Be Included:

1. Fluid and 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 kidney injury and 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 and 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 across the lifespan

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

Effective Date of Course Content Summary: Spring 2019