Course Description

In-depth coverage of health care concepts with application through selected exemplars. Concepts include acid-base balance, coping, clotting, cognition, fluid and electrolytes, gas exchange, immunity, metabolism, nutrition, comfort, and perfusion. Provides continuing opportunities for development of clinical judgment skills. The course lends itself to a concept-based approach.

Course Objectives

Upon completion of this course the student will:

1. Utilize a systematic process to analyze selected health care concepts for diverse patients across the lifespan.
2. Describe nursing management for selected health care concepts.
3. Apply the learned concepts to other concepts or exemplars.
4. Describe the interrelatedness between health care concepts to assist in developing clinical judgment.

Course Outline

HEALTH CARE CONCEPTS – BIOPHYSICAL

Acid Base Balance
- Diabetic Ketoacidosis (DKA) – Metabolic Acidosis
- Hyperventilation – Respiratory Alkalosis
- Gastro-intestinal Losses – Metabolic Alkalosis
- Drug Overdose with Hypoventilation – Respiratory Acidosis

Clotting
- Hemophilia
- Deep Vein Thrombosis (DVT)
Comfort
- Diabetic Neuropathy
- Pancreatitis Pain
- Sickle Cell Pain
- Post-operative Pain
- Renal Calculi
- End Stage Renal Disease
- Congestive Heart Failure

Elimination
- Diverticulitis
- Clostridium Difficile
- Crohn’s Disease
- Neurogenic Bladder – Spastic

Fluid & Electrolyte Balance
- Dehydration – Gastroenteritis
- Extracellular Fluid Volume Excess
- Hypokalemia
- Hyperkalemia - Chronic Renal Failure
- Hyponatremia - Syndrome of antidiuretic Hormone (SIADH)
- Hypernatremia – Diabetes Insipidus (DI)
- Hypophosphatemia
- Hyperphosphatemia
- Hypomagnesemia
- Hypermagnesemia

Gas Exchange
- Asthma
- Chronic Obstructive Pulmonary Disease (COPD)
- Pneumonia- Aspiration
- RSV/Bronchiolitis

Immunity
- Vaccines
- Otitis media
- Urinary Tract Infection
- Cellulitis
• Pneumonia
• Appendicitis
• Trauma-sprain

**Metabolism**
• Diabetes Type 1
• Diabetes Type 2
• Gestational Diabetes
• Graves’ Disease – Hyperthyroidism
• Hypothyroidism
• Addison’s Disease – Hypo-Cortisolism
• Cushing’s – Hyper-Cortisolism

**Nutrition**
• Cardiovascular
• Diabetes Type 2
• Malnutrition
• Malabsorption Syndromes (Gastrostomy and Enteral Feedings)

**Perfusion**
• Congestive Heart Failure
• Hypertension
• Pregnancy Induced hypertension (PIH)
• Mitral Valve Prolapse
• Coronary Artery Disease (CAD)
• Tetralogy of Fallot (congenital)
• Peripheral Vascular Disease (PVD)

**HEALTH CARE CONCEPTS – PSYCHOSOCIOCULTURAL**

**Cognition**
• Alzheimer’s Disease/Dementia
• Delirium
• Down Syndrome

**Coping**
• Anxiety
  Generalized Anxiety Disorder
Panic Disorder (Attack)
Obsessive Compulsive Personality Disorder
Phobia
Separation Anxiety (Developmental)
Eating Disorders
  Anorexia Nervosa
  Bulimia

- Stress
  Post-Traumatic Stress Disorder
  Divorce
  Pelvic Ulcer Disease (stress related)

- Substance Abuse/Addictive Behaviors
  Alcoholism
  Maternal/Fetal Cocaine Addiction
  Neonatal Abstinence Syndrome

Required Textbooks & Equipment

*Elsevier Publishing – Package*


Semester syllabus
Associate Degree Nursing Program student handbook
ExamSoft
Course Requirements
To be determined

Last Revised 08/15