Texas Concept-Based Curriculum  
El Centro College ADN Program  
RNSG 1533 – Health Care Concepts II  
Section 51110, 71130, 51351, 51352, 51353

**SEMESTER HOURS**  5  
**CONTACT HOURS**  
**PREREQUISITES:**  RNSG 1125, 1128, 1161, 1216, 1430  
**COREQUISITES:**  RNSG 1126, 2362

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**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
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- 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
  St. Louis: Mosby Elsevier.
  St. Louis: Mosby Elsevier.

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

Last Revised 08/15