Course Information Form (CIF)

Course Code: LPN 118

Course Title: Medical Surgical Nursing

Department: Nursing
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 51.3901
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 3-6-5
Credit Hour Distribution:

Lecture: 3	Lab: 0	Clinical: 6	**Total: 5**

General Course Information

Catalog Description

Utilizes the nursing process for providing care to adults presenting with common functional or health deviations.

General Course Objectives

The student will be able to identify, assess, and implement a plan of care within their scope of practice. Furthermore, the student shall evaluate the effectiveness of the interventions provided and revise the plan of care as appropriate with adult patients presenting with alterations in functional health patterns as a result of changes, variations, and/or illnesses in the following areas/body systems: inflammation/infection/immunity, pain, psych, substance abuse/addiction, liver/gallbladder/pancreas, renal, endocrine, fluids/electrolytes, acid/base balance, gastrointestinal, cancer, and respiratory.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 099	None

Prerequisites

Credit in LPN 111, LPN 114, and LPN 117
Credit or concurrent enrollment in BIO 120, BIO 122, and ENG 101
Admission into the LPN program

Methods of Evaluation

8 quizzes, 1 midterm and 1 final exam, 1 scholarly paper, Kaplan Integrated Exam, and clinical faculty evaluation.

Instructional Materials and Additional Supplies

Understanding Medical-Surgical Nursing, 7th edition, Williams and Hopper. 978-1719644587
The Nursing Diagnosis Manual, Marilynn Doenges. FA Davis. 7th ed. 978-1-71964-533-1
Davis Drug Guide for Nurses, Vallerand. FA Davis. 18th ed. 978-1-71964-640-6
Davis Comprehesive Manual of Laboratory and Diagnostic Tests, Vanleeuwen. FA Davis. 9th ed. 978-1-71964-612-3
No additional supplies are required other than those previously stated in LPN 114 (stethoscope, bandage scissors, watch with a second hand, pen light). Computer accessibility with access to internet is required. Webcam (internal or external) required for some exams.

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.
- Critical Thinking and Information Literacy: Students will demonstrate the ability to evaluate perspectives, evidence, and implications, and to locate, assess, and use information effectively.
- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.
- Global Awareness and Cultural Reasoning: Students will demonstrate their understanding of global issues, gender and sexual orientation, and multicultural perspectives.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Immunity, Inflammation, and Infection	1. List the links in the chain of infection. 2. Explain how to interrupt the routes of transmission for infections. 3. Describe the body's defense mechanisms to fight infection. 4. Describe the principles of anti-infective medication administration. 5. Describe nursing care for a patient with an infection.	3	0	7
Psych and Addiction/Abuse	1. Define mental health and mental illness. 2. Describe the components of a mental health status assessment. 3. Identify actions, side effects, and nursing considerations for selected classifications of psychoactive medications. 4. Plan nursing interventions for patients with mental health disorders. 5. Discuss the role of the licensed practical nurse/licensed vocational nurse (LPN/LVN) in the care of patients with mental health disorders. 6. Describe signs and symptoms of common mental health disorders. 7. Describe therapeutic management for each of the disorders.	4	0	7
Pain and Diabetes	1. Describe current definitions of pain. 2. Identify common myths and barriers to the effective management of pain. 3. Differentiate among addiction, physical dependence, and tolerance. 4. Explain current understanding about the basic physiology of the pain response. 5. Differentiate between nociceptive and neuropathic pain. 6. Perform a basic pain assessment. 7. Describe the three classes of analgesics and their uses. 8. Identify commonly used pain medication treatment modalities and their appropriate uses. 9. Recognize appropriate use of non-pharmacological pain management techniques. 10. Explain the pathophysiology of type 1 and type 2 diabetes mellitus.	4	0	7

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Pain and Diabetes (cont'd)	11. Identify risk factors for type 1 and type 2 diabetes mellitus. 12. Describe the signs and symptoms of diabetes mellitus. 13. Describe causes, signs and symptoms, and treatment of high and low blood glucose levels. 14. Discuss how diabetes mellitus increases risk of complications such as heart disease, blindness, and kidney failure. 15. Identify diagnostic tests used to diagnose and monitor diabetes mellitus and its complications. 16. Identify therapeutic measures to help patients with diabetes mellitus control blood glucose levels. 17. Differentiate the action of insulin and oral hypoglycemic agents in lowering blood glucose levels. 18. Plan nursing care and education for the patient with diabetes mellitus. 19. List measures to increase the safety of the patient with diabetes mellitus who is undergoing surgery. 20. Explain reactive hypoglycemia and its treatment.			
GI, Gallbladder, Liver, and Pancreas	1. List the structures of the gastrointestinal tract and of the accessory glands: liver, gallbladder, and pancreas. 2. Describe the functions of each organ of the gastrointestinal tract and of the accessory glands: liver, gallbladder, and pancreas. 3. Discuss how age affects the gastrointestinal tract and accessory glands. 4. List data to collect when caring for a patient with a disorder of the gastrointestinal system, liver, gallbladder, or pancreas. 5. Differentiate normal and abnormal data collection findings. 6. Explain techniques used to conduct a physical examination of the abdomen. 7. Plan nursing care for patients having diagnostic tests of the gastrointestinal tract. 8. Explain types of nasogastric tubes and their uses. 9. Plan nursing care for insertion and maintenance of nasogastric tubes. 10. Describe therapeutic measures used for patients with gastrointestinal diseases.	4	0	7
Urological System and Disorders	1. Explain the predisposing causes, symptoms, laboratory abnormalities, and treatment of urinary tract infections. 2. Explain the predisposing causes, symptoms, treatment, and teaching for kidney stones. 3. List risk factors and signs and symptoms of cancer of the bladder. 4. List risk factors and signs and symptoms of cancer of the kidneys. 5. Discuss nursing care for a patient with an ileal conduit or continent reservoir. 6. Explain the pathophysiology and nursing care for diabetic nephropathy, nephrosclerosis, hydronephrosis, and glomerulonephritis. 7. Describe the signs and symptoms for patients with acute kidney injury. 8. Describe the signs and symptoms for patients with chronic kidney disease.	4	0	7

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Fluids and Electrolytes	1. Identify the purposes of fluids and electrolytes in the body. 2. List the signs and symptoms of common fluid imbalances. 3. Predict patients who are at the highest risk for dehydration and fluid excess. 4. Identify data to collect in patients with fluid and electrolyte imbalances. 5. Describe therapeutic measures for patients with fluid and electrolyte imbalances. 6. Identify the education needs of patients with fluid imbalances. 7. Categorize common causes, signs and symptoms, and treatments for sodium, potassium, calcium, and magnesium imbalances. 8. Identify foods that have high sodium, potassium, and calcium contents. 9. Give examples of common causes of acidosis and alkalosis. 10. Compare how arterial blood gases change for each type of acid-base imbalance.	3	0	7
Acid/Base Balance	1. Describe the pathophysiology, clinical manifestations, treatment, nursing care, and associated problems for acid/base balance. 2. Describe the role of the kidneys, lungs, and chemical buffers in maintaining acid/base balance. 3. Describe metabolic acidosis and alkalosis causes, signs and symptoms, diagnosis, and nursing management. 4. Describe respiratory acidosis and alkalosis causes, signs and symptoms, diagnoses, and nursing management. 5. Interpret blood gas analysis. 6. Identify nursing actions, rationale, care, and outcomes for acid/base imbalances.	3	0	7
IVs	1. Discuss how the practice of IV therapy is regulated. 2. List indications for IV therapy. 3. Plan nursing interventions to prevent IV therapy complications. 4. Identify common complications associated with IV therapy. 5. Calculate flow and drip rates for IV solutions. 6. Differentiate characteristics of isotonic, hypertonic, and hypotonic solutions. 7. Explain the differences between peripheral and central venous access devices. 8. Describe types of central venous access devices. 9. List indications for subcutaneous infusions (hypodermoclysis).	3	0	7
Upper/Lower Digestive Tracts	1. Explain anorexia, nausea, and vomiting. 2. Describe therapeutic measures and nursing care for anorexia, nausea, and vomiting. 3. Describe medical, surgical, and nursing management for obesity. 4. Plan nursing care for patients with acute or chronic gastritis. 5. Explain the pathophysiology, signs and symptoms, and diagnostic testing for hiatal hernia, peptic ulcer disease, gastric bleeding, and gastric cancer. 6. List current pharmacological treatments used for peptic ulcer disease. 7. Plan nursing care for patients with hiatal hernia, peptic ulcer disease, gastric bleeding, and gastric cancer.	3	0	7

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Cancer	1. Explain the structures and functions of the normal cell. 2. Describe changes that occur in a cell when it becomes malignant. 3. Identify commonly used chemotherapeutic agents. 4. Discuss the plan of care for the patient receiving chemotherapy and/or radiation therapy. 5. Identify data to collect when caring for a patient with cancer. 6. Recognize common oncological emergencies and related nursing care. 7. Discuss how you will know if your nursing interventions have been effective. 8. Describe the role of hospice in providing care for patients with advanced cancer.	4	0	7
Endocrine System	1. Identify the glands of the endocrine system. 2. Explain the function of each of the hormones in the endocrine system. 3. Describe the effects of aging on endocrine system function. 4. List data to collect when caring for a patient with a disorder of the endocrine system. 5. Plan nursing care for patients undergoing testing for an endocrine disorder.	4	0	7
Upper Respiratory Tract	1. Explain the pathophysiology of disorders of the upper respiratory tract. 2. Describe etiologies and signs and symptoms of disorders of the upper respiratory tract. 3. Describe current therapeutic measures for disorders of the upper respiratory tract. 4. Assist in planning nursing care for the patient with an upper respiratory disorder. 5. Discuss how you will know if your care has been effective. 6. Identify the special needs of the patient who has undergone a laryngectomy.	3	0	7
Lower Respiratory Tract	1. Explain the pathophysiology of each of the disorders of the lower respiratory tract. 2. Describe the etiologies, signs, and symptoms of each of the disorders. 3. Identify tests that are used to diagnose lower respiratory disorders. 4. Describe therapeutic measures used for disorders of the lower respiratory tract. 5. List data to collect when caring for patients with disorders of the lower respiratory tract. 6. Plan nursing care for patients with disorders of the lower respiratory tract. 7. Identify interventions for patients experiencing impaired gas exchange, ineffective airway clearance, or ineffective breathing pattern. 8. Explain how you will know if your nursing interventions have been effective.	3	0	6

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
45	0	90