

**BOONE CAREER AND TECHNICAL CENTER
SCHOOL OF PRACTICAL NURSING
9128 PRACTICAL NURSING – MEDICAL SURGICAL COURSE SYLLABUS**

MISSION: Boone Career and Technical Center enriches lives locally, regionally, and globally by providing occupational education and training for lifelong learning and professional success.

VISION: Your Goals. Our Mission

PROGRAM OF STUDY:	PRACTICAL NURSING
COURSE:	PRACTICAL NURSING – MEDICAL SURGICAL
Term:	2
Theory/Lab Hours:	216 Hours
Clinical Hours:	234 Hours
Prerequisites:	PRACTICAL NURSING PRINCIPLES AND FUNDAMENTALS
Program Coordinator:	Paula Webb, RN pholstei@k12.wv.us
Instructor:	Kelly Harless, RN kelly.harless@k12.wv.us
Instructor Office Location:	Room 107
Instructor Phone:	(304) 369-4585
Instructor Office Hours:	Monday – Friday, 2:30 p.m. – 3:00 p.m.

Course Description:

The Practical Nursing Medical Surgical course contains a comprehensive didactic and clinical curriculum to prepare students to care for patients in a broad range of medical surgical settings. Students learn to establish priorities and promote psychosocial and physiological integrity. The course emphasizes care of patients with conditions and disorders of the body systems, have sustained injuries, and are undergoing procedures such as diagnostic testing or surgery.

Required Text and Other Materials Needed:

Medical-Surgical Nursing: Concepts and Practice, 6th Ed., Stromberg
ISBN: 9780443245251

Additional Resource Texts:

Fundamental Concepts and Skills for Nursing, 6th Ed., Williams, ISBN 9780323694780
William's Basic Nutrition and Diet Therapy, 16th Ed., Nix, ISBN 9780323674577
The Human Body in Health and Illness, 7th Ed., Herlihy, ISBN: 9780443124723

Course Goals:

Upon on completion of this course students will be able to care for patients who require medical surgical intervention safety and accurately. Students will establish priorities, plan work assignments, delegate tasks to unlicensed personnel, and carry out patient care plans to successfully manage patient physiological and psychological integrity. Students will master the skills necessary to provide care for patients requiring medical and/or surgical care.

Course Schedule/Topic Outline:

TERM 2 April 27 – August 21, 2026	
Apr. 27 – May 1 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
Apr. 29 – May 1 12 Hours Theory 3 Sherpath 3 Care Plans 2 Lab 4 Clinical Simulation 1	Chapter 1: Caring for Medical-Surgical Patients (1 Hour) Roles of the LPN/LVN Employment Opportunities Ethical and Legal Practice Quality and Safety Health Care Today Financing of Health Care Providing Holistic Care Chapter 2: Critical Thinking, Clinical Judgment, & Nursing Process (1 Hour) Critical Thinking and Clinical Judgment Applying LPN/LVN Standards in Medical-Surgical Nursing Interdisciplinary (Collaborative) Care Plans Chapter 3: Fluids, Electrolytes, Acid-Base Balance, and IV Therapy (1 Hour) Distribution and Regulation of Body Fluids Osmolality Fluid Imbalances Electrolytes Acid-Base System Acid-Base Imbalances Intravenous Fluid Therapy Nursing Management Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Planning (2 Hours) Skills Labs: Communication Techniques, Care Planning, Managing IV Fluids & Med Locks, Focused Assessments (4 Hours) ShadowHealth Simulation: Complex Assess-Generalized Weakness (1 Hour)
May 4 – 5 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
May 6 – 8 12 Hours Theory 3 Sherpath 3 Care Plans 2 Lab 4	Chapter 4: Care of Preoperative and Intraoperative Surgical Patients (1 Hr) Surgery Technological Approaches in Surgery Autologous Blood for Transfusion Bloodless Surgery Perioperative Nursing Management The Surgical Team The Surgical Suite

Clinical Simulation 1	Anesthesia Potential Intraoperative Complications Chapter 5: Care of Postoperative Surgical Patients (1 Hour) Immediate Postoperative Care Nursing Management Discharge Planning Community Care Chapter 6: Infection Prevention and Control (1 Hour) The Infectious Process and Disease The Body's Defense Against Infection Infection Prevention and Control Health Care–Associated Infections Multidrug-Resistant Organisms (MDROs) Sepsis and Septic Shock Nursing Management Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Planning (2 Hours) Skills Labs: NPO Status, Surgical Site Prep/ Preop Procedures, Incentive spirometer, TCDB, Sterile fields and gloving, Assessments (4 Hours) ShadowHealth Simulation: Perioperative Hourly Rounds (1 Hour)
May 11 – 12 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
May 13 – 15 12 Hours Theory 3 Sherpath 3 Care Plans 2 Lab 4 Clinical Simulation 1	Chapter 7: Care of Patients with Pain (1 Hour) Theories of Pain Classification of Pain Perception of Pain Acute Versus Chronic Pain Nursing Management Management of Pain Community Care Chapter 8: Care of Patients with Cancer (1 Hour) The Impact of Cancer Pathophysiology of Cancer Metastasis Genetic Factors Contributing Factors Classification of Tumors Measures to Prevent Cancer Detection of Cancer Nursing Management Common Therapies, Problems, and Nursing Care Common Problems Related to Cancer or Cancer Treatment Care Settings for the Cancer Patient

	Chapter 9: Chronic Illness and Rehabilitation (1 Hour) Chronic Illness End-of-Life Care Sherpath Chapter Assignments (6 Hours) NCLEX Questions and Care Plans (2 Hours) Skills Labs: Pain scales, documentation and care planning, PCA pump, palliative care, patient assessments (4 Hours) ShadowHealth Simulation: Complex Assessment- Generalized Weakness
May 18 – 19 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
May 20 – 22 12 Hours Theory 2 Sherpath 4 Care Plans 2 Lab 4 Clinical Simulation 1	Chapter 10: The Immune and Lymphatic Systems (1 Hour) Anatomy and Physiology of the Immune and Lymphatic Systems Protective Mechanisms of the Immune and Lymphatic Systems Immune and Lymphatic System Disorders Nursing Management Common Problems Related to the Immune and Lymphatic Systems Chapter 11: Care of Patients with Immune and Lymphatic Disorders (1 Hr) Immune Function and Dysfunction Immune Deficiency Conditions Therapeutic Immunosuppression Nursing Management Human Immunodeficiency Virus and Acquired Immunodeficiency Syndrome Human Immunodeficiency Virus Risk in Patients Older Than 50 Years Community Education and Care Autoimmune and Autoinflammatory Disorders Disorders of the Lymphatic System Disorders of Inappropriate Immune Response Sherpath Chapter Assignments (4 Hours) NCLEX Questions and Care Plans (2 Hours) Skills Lab: Assessments, care of neutropenic patients, protective isolation, blood transfusions (4 Hours) ShadowHealth Simulation: Complex Assessment- Immunocompromise (1 Hr)
May 26 Clinicals 8	Med-Surg Clinicals (8 Hours) Thomas Memorial 3P, 5P
May 27 – 29 12 Hours Theory 3 Sherpath 3 Care Plans 2 Lab 4 Clinical	Chapter 12: The Respiratory System (1 Hour) Overview of Anatomy and Physiology of the Respiratory System Causes of Respiratory Disorders Respiratory Disorders Nursing Management Common Respiratory Patient Care Problems Chapter 13: Care of Patients with Disorders of the Upper Respiratory System (1 Hour) Disorders of the Nose and Sinuses

Simulation 1	SARS-CoV-2/COVID-19 Obstruction and Trauma Community Care Chapter 14: Care of Patients with Disorders of the Lower Respiratory System (1 Hour) Respiratory Infectious Diseases Restrictive Pulmonary Disorders Obstructive Pulmonary Disorders Pulmonary Vascular Disorders Chest Injuries Lung Disorders Common Therapeutic Measures Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Plans (2 Hours) Skills Lab: Oxygen saturation, Oxygen admin, sputum specimens, throat culture; Assessment: lung sounds, med admin, trach suctioning and care, mechanical ventilation, CPAP (4 Hours) ShadowHealth Simulation: Respiratory System Hourly Rounds (1 Hour)
June 1 – 2 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
June 3 – 5 11 Hours Theory 2 Sherpath 4 Care Plans 2 Lab 3	Chapter 15: The Hematologic System (1 Hour) Overview of Anatomy and Physiology of the Hematologic System Causes of Hematologic Disorders Prevention of Hematologic Disorders Diagnostic Tests and Procedures Nursing Management Common Problems Related to Disorders of the Hematologic System Chapter 16: Care of Patients with Hematologic Disorders (1 Hour) Disorders of the Hematologic System Nursing Management Coagulation Disorders Therapies Frequently Used in the Management of Hematologic Disorders Community Care Sherpath Chapter Assignments (4 Hours) NCLEX Questions and Care Plans (2 Hours) Skills Lab: Hematologic assessment, Anatomage activity- hematology, blood cultures, coagulation meds and patient care planning (3 Hours)
June 8 – 9 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
June 10 – 12 14 Hours	Chapter 17: The Cardiovascular System (1 Hour) Overview of Anatomy and Physiology of the Cardiovascular System Cardiovascular Disease

Theory 4 Sherpath 3 Care Plans 2 Lab 5 Clinical Simulation 1	Nursing Management Common Problems of Patients with Cardiovascular Disorders Chapter 18: Care of Patients with Hypertension and PVD (1 Hour) Hypertension Arteriosclerosis and Atherosclerosis Peripheral Vascular Disease Assessment (Data Collection) Problem Statement/Nursing Diagnosis and Planning Implementation Evaluation Carotid Artery Disease Thromboangiitis Obliterans (Buerger Disease) Signs, Symptoms, Diagnosis, and Treatment Nursing Management Venous Disorders Community Care Chapter 19: Care of Patients with Cardiac Disorders (1 Hour) Disorders of the Heart Nursing Management Inflammatory and Infectious Diseases of the Heart Cardiomyopathy Cardiac Valve Disorders Common Therapies and Their Nursing Implications Community Care Chapter 20: Care of Patients with CAD and Cardiac Surgery (1 Hour) Coronary Artery Disease/Coronary Heart Disease Surgical and Nonsurgical Treatment Options Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Plans (2 Hours) Skills Lab: Cardiac monitoring, ECGs, dopplers, Heart sounds, edema, CPR, cardiac and HTN medications, pacemaker care, cardiac diets (5 Hours) ShadowHealth Simulation: Complex Assess- End Stage Heart Failure (1 Hr)
June 15 – 16 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
June 17 – 19 13 Hours Theory 4 Sherpath 3 Care Plans 2 Lab 4	Chapter 21: The Neurologic System (1 Hour) Anatomy and Physiology of The Neurologic System Causative Factors Involved in Neurologic Disorders Prevention of Neurologic Disorders Evaluation of Neurologic Status Nursing Management Common Neurologic Patient Care Problems Chapter 22: Care of Patients with Head and Spinal Cord Injuries (1 Hour) Traumatic Brain (Head) Injuries

Clinical Simulation 1	Increased Intracranial Pressure Nursing Management Injuries of the Spine and Spinal Cord Nursing Management Back Pain and Herniated Disk (Bulged, Slipped, or Ruptured Disk) Chapter 23: Care of Patients with Brain Disorders (1 Hour) Seizure Disorders and Epilepsy Nursing Management Transient Ischemic Attack Cerebrovascular Accident (Stroke, Brain Attack) Brain Tumor Infectious and Inflammatory Disorders of the Nervous System Headaches Cranial nerve disorders Nursing Management Chapter 24; Care of Pts with Peripheral Nerve and Degenerative Nerve Disorders (1 Hour) Parkinson Disease Multiple Sclerosis Alzheimer Disease Amyotrophic Lateral Sclerosis Guillain-Barré Syndrome Poliomyelitis and Postpolio Syndrome Huntington Disease Myasthenia Gravis Nursing Management Restless Leg Syndrome Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Plans (2 Hours) Skills Lab: Anatomage- neuro assessment activity, TBI-stroke-migraine assessments and management, spinal cord injury management, neuro medications (4 Hours) ShadowHealth Simulation: Complex Assessment- Cardiac Intervention (1 Hr)
June 22 – 23 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
June 22 – 26 14 Hours Theory 5 Sherpath 3 Care Plans 2 Lab 4	HESI Midterm (3 Hours) Chapter 25: The Sensory System: Eye (1 Hour) Anatomy and Physiology of the Eye The Eye Nursing Management Common Disorders of the Eye Nursing Care of Patients Having Eye Surgery Community Care

Clinical Simulation 1	Chapter 26: The Sensory System: Ear (1 Hour) - Anatomy and Physiology of the Ear - The Ear - Nursing Management - Common Problems of Patients with Ear Disorders - Common Disorders of the Ear - Cochlear Implant - Nursing Care of Patients Having Ear Surgery - Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Plans (2 Hours) Skills lab: Admin of eye and ear meds, glaucoma testing, Romberg test, hearing and vision screens (4 Hours) ShadowHealth Simulation: Complex Assessment- Arrhythmia (1 Hour)
Jun 29 – July 3	Summer Break
July 6 – 7 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
July 8 – 10 14 Hours Theory 4 Sherpath 3 Care Plans 3 Lab 4 Clinical Simulation 1	Chapter 27: The Gastrointestinal System (1 Hour) - Anatomy and Physiology of the Gastrointestinal System - The Gastrointestinal System - Nursing Management Chapter 28: Care of Patients with Disorders of the Upper GI System (1 Hr) - Eating Disorders - Nursing Management of Obesity - Upper Gastrointestinal Disorders - Nursing Management - Common Therapies for Disorders of the Gastrointestinal System Chapter 29: Care of Patients w/ Disorders of the Lower GI System (1 Hr) - Disorders of the Abdomen and Bowel - Nursing Management - Ostomy Surgery and Care - Nursing Management - Anorectal Disorders - Community Care Chapter 30: Care of Patients w/ Disorders of the GB, Liver, Pancreas (1 Hr) - Disorders of the Gallbladder - Disorders of the Liver - Nursing Management - Disorders of the Pancreas - Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Plans (3 Hours) Skills Lab: Anatomage- GI System, GI disorders; Ostomy care and appliances, NG tube insertion, Bowel programs, GI meds, parenteral feedings (4 Hours)

	ShadowHealth Simulation Lab: Gastrointestinal Hourly Rounds (1 Hour)
July 13 – 14 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
July 15 – 17 14 Hours Theory 4 Sherpath 3 Care Plans 2 Lab 5 Clinical Simulation 1	Chapter 31: The Musculoskeletal System (1 Hour) Anatomy and Physiology of the Musculoskeletal System Musculoskeletal Disorders Nursing Management Chapter 32: Care of Patients with Musculoskeletal Connective Tissue Disorders (1 Hour) Connective Tissue Disorders Inflammatory Disorders of the Musculoskeletal System Nursing Management Community Care Chapter 33: The Urinary System (1 Hour) Anatomy and Physiology of the Urologic System The Urologic System Nursing Management Common Urologic Problems Chapter 34: Care of Patients with Disorders of the Urinary System (1 Hour) Inflammatory Disorders of the Urinary Tract Obstructions of the Urinary Tract Urologic System Trauma Urologic System Cancers Renal Failure Nursing Management Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Plans (2 Hours) Skills Lab: Anatomage- urinary system; urostomies; purwick; dialysis; bladder scan; mobility/assistive devices; heat/cold application (5 Hours) ShadowHealth Simulation: Renal System Hourly Rounds (1 Hour)
July 20 – 21 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
July 22 – 24 14 Hours Theory 4 Sherpath 3 Care Plans 2 Lab 5 Clinical Simulation 1	Chapter 35: The Endocrine System (1 Hour) Anatomy and Physiology of the Endocrine System The Endocrine System Nursing Management Community Care Chapter 36: Care of Patients with Pituitary, Thyroid, Parathyroid, Adrenal Disorders (1 Hour) Disorders of the Pituitary Gland Disorders of the Thyroid Gland Disorders of the Parathyroid Glands Disorders of the Adrenal Glands

	Community Care Chapter 37: Care of Patients w/ Diabetes and Hypoglycemia (2 Hours) Diabetes Mellitus and Hypoglycemia Nursing Management Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Plans (2 Hours) Skills Lab: Blood glucose POCT, urine & blood specimens, insulin injections and diabetic meds (5 Hours) ShadowHealth Simulation: Endocrine System Hourly Rounds (1 Hour)
July 27 – 28 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
July 29 – 31 12 Hours Theory 4 Sherpath 3 Care Plans 2 Lab 3	Chapter 38: The Reproductive System (2 Hours) The Female Reproductive System Anatomy and Physiology of the Female Reproductive System Women's Health Care Health Screening and Assessment Anatomy and Physiology of the Male Reproductive System The Male Reproductive System Nursing Management Care of Patients who Identify as LGBTQIA2+ Chapter 39: Care of Women with Reproductive Disorders (2 Hours) Menstrual Dysfunction Infertility Menopause Disorders of the Female Reproductive Tract Cancer of the Reproductive Tract Disorders of the Breast Nursing Management Home Care Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Plans (2 Hours) Skills Lab: Sitz bath, specimen collection, birth control, Anatomage (3 Hours)
Aug 3 – 4 Clinicals 16	Med-Surg Clinicals (16 Hours) Thomas Memorial 3P, 5P
Aug. 3 – 7 13 Hours Theory 4 Sherpath 3 Care Plans 2 Lab 4	Chapter 40: Care of Men with Reproductive Disorders (2 Hours) Disorders of the Male Reproductive System Priapism Community Care Chapter 41: Care of Patients with Sexually Transmitted Infections (2 Hours) Identification, Diagnosis, and Management of Sexually Transmitted Infections Transmission of Sexually Transmitted Infections

	Nursing Management Common Infections of the Female Reproductive Tract Risk Factors for Transmission of Sexually Transmitted Infections Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Plans (2 Hours) Skills Lab: Anatomage male reproductive system; condom cath (4 Hours)
Aug. 10 – 14 13 Hours Theory 3 Sherpath 4 Care Plans 3 Lab 3 Clinical Simulation 3	Chapter 42: The Integumentary System (1 Hour) Anatomy and Physiology of the Integumentary System The Integumentary System Nursing Management Chapter 43: Care of Patients with Integumentary Disorders and Burns (2 Hr) Inflammatory Infections Bacterial Infections Viral Infections Fungal Infections Parasitic Infections Noninfectious Disorders of Skin Nursing Management Community Care Sherpath Chapter Assignments (3 Hours) NCLEX Questions and Care Plans (3 Hours) Skills Lab: Skin assessment, Skin care, skin lesion assessment, burn management (3 Hours) ShadowHealth Simulation: Comprehensive Assessment (3 Hours)
Aug. 17 – 21 13 Hours Theory 3 Sherpath 4 Care Plans 2 Lab 4 Clinical Simulation 1	Chapter 44: Care of Patients in Disasters or Bioterrorism Attacks (1 Hour) Disaster Preparedness and Response Preparing for Chemical, Nuclear, or Biological Disasters Active Shooter Debriefing Chapter 45: Care of Patients with Emergent Conditions, Trauma, and Shock (2 Hours) Prevention of Accidents First Aid and Good Samaritan Laws Psychological and Social Emergencies Emergency Care Metabolic Emergencies Injuries Caused by Extreme Heat and Cold Poisoning Bites and Stings Electrical Injuries and Burns Choking Emergencies Cardiopulmonary Resuscitation Shock

	Sherpath Chapter Assignments (4 Hours) NCLEX Questions and Care Plans (2 Hours) Skills Lab: CPR and First Aid Review (4 Hours) ShadowHealth Simulation: Complex Assessment-Unresponsive (1 Hour)
Aug. 24- 28 Theory 8	Med-Surg Review (8 Hours)
Aug. 31 – Sept. 4 Theory 3 Clinical Simulation 3	ShadowHealth Simulations: Comprehensive Assessments (3 Hours) HESI Final Med-Surg (3 Hours)

Evaluation:

The assessment and grading of student performance in this course is based on the following activities: attendance, participation, assignments, unit tests, skill sessions, clinical rotations, a final exam.

Students must successfully pass all the competencies in order to pass the course and/or progress in the program. Students may re-attempt a competency up to three times in order to progress in the course.

Grading Scale

94 – 100 = A

86 – 93 = B

80 – 85 = C

70 – 79 = D

0 – 69 = F

Students must score 80% or above to successfully complete this course and progress to the next course.

Support Services:

1. The Individual Career Plan (ICP) is a planning tool that is used for career preparation, career growth and lifelong learning goals. All adult education students will complete an Individual Career Plan.
2. Students will be counseled on attendance and grades at mid-term and as needed by program instructors.
3. Students who fail a course must remediate with the Adult Learning Center. Please call 304- 369-4585 for more information.

Awards and Honors:

Outstanding students will be invited to become a member of the National Technical Honor Society. Students are recommended by the career & technical instructor.

Criteria for nomination:

- GPA of 4.0 (A)

- Exemplary Conduct & Attitude
- Leadership
- Teamwork
- Exemplary Attendance

Course Policies:

See the School of Practical Nursing Policy and Procedure Manual

School Policies:

See BCTC Adult Student Handbook

Discrimination Prohibited:

As required by federal law and regulations, the Boone County Board of Education does not discriminate on the basis of sex, race, color, religion, disability, age or national origin in its employment practices or in the administration of any of its educational programs and activities. Inquiries may be directed to Anthony Tagliente, Safe Schools coordinator, Boone County Board of Education, 69 Avenue B, Madison, WV, 25130 phone 369-8276.

SPECIAL NEEDS: If you need accommodations because of a disability, have emergency medical information to share with me, or need special arrangements in case the building must be evacuated, please inform me immediately.

Instructor retains the right to adjust the course schedule and revise the course syllabus as needed.