COURSE DESCRIPTIONS

HEALTH SCIENCE

ECV 1114 ELECTROCARDIOGRAPHY BASIC - This ten week 90 clock hour course is designed to provide the necessary information to correctly understand and perform the twelve lead EKG by didactic instruction (90 contact hours), laboratory (15 contact hours), and clinical practicum (15 contact hours). This course includes hospital and health clinic rotations. (4 sch: 2 lecture, 1 lab, 1 clinical).

NAV 1116 ADULT LONG-TERM CARE NURSE AIDE - This 90 clock hour course is designed to prepare the student to assist in providing care as a member of the health care team in a skilled nursing facility under the direction of health care providers through didactic instruction (42 clock hours), lab (28 clock hours) and clinical (20 clock hours). The components of this course include: Fundamentals of Long-Term Care Assisting; Long-Term Care concepts and Skills, Human Needs, and Special Care Procedures. (6 sch: 3 lecture, 2 lab, 1 clinical.)

EMS 1163 EMT Medical Technician I (EMT) – An introductory course in the foundational concepts of the Emergency Medical Services. Lectures include topics in the history of EMS, well- being of the EMT, medical-legal issues, communication, documentation, A&P, Pathophysiology, life-span development, patient assessment, and vital signs. Laboratory experience will include training in patient assessment and vital signs. (3 Sch.: 2 lecture, 2 lab, 60 total contact hours)

EMS 1174 Emergency Technician II (EMT) – A continuation of the content in EMS 1163 focusing on the incorporation of foundational concepts toward the recognition, stabilization, and transport of patients of all ages range experiencing medical and traumatic emergencies. Ambulance operations and special considerations will also be discussed. (4 Sch.: 2 lecture, 2 lab, 3 clinical, 105 contact hours)

EMS 1133 FOUNDATIONS OF PARAMEDICINE – LECTURE/LAB: This course includes a comprehensive review of the knowledge base and skill set of the Emergency Medical Technician. History of EMS, well-being of the EMT, medical legal issues, communication and documentation will be expanded to the role of the paramedic. This course includes the theory related to intravenous/intraosseous access, medication administration, patient assessment, and introductory pharmacology calculations. It also includes a laboratory experience designed to give psychomotor experience to the theoretical concepts developed in the lecture. (3 Sch.: 2 lecture, 2 Lab- 60 contact hours) May 2018 change

EMS 1213 CONCEPTS OF AIRWAY AND RESPIRATORY MEDICINE – LECTURE/LAB: This courses integrates complex knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal of assuring a patient airway, adequate mechanical ventilation, and respiration for patients of all ages. This course also includes lab that will integrate comprehensive knowledge of anatomy, physiology, and pathophysiology into the assessment to develop and implement a treatment plan with the goal

of ensuring a patient airway, adequate mechanical ventilation, and respirations for patients of all ages. (3 Sch.: 2 lecture, 2 Lab- 60 contact hours) May 2018 change

EMS 1325 CONCEPTS OF CARDIOVASCUALR MEDICINE – LECTURE/LAB –This course consists of the theory, anatomy, physiology, pathophysiology and treatments associated with the conditions of the cardiovascular system. This includes the theory of introductory, advanced, and multi-lead electrocardiogram interpretation. Changes in the lifespan will also be included. It is also a laboratory experience designed to give psychomotor experience to the theoretical concepts developed in the lecture. (5 Sch.: 3 lecture, 4 clinical/field – 105 contact hours) May 2018 change

EMS 1514 PRACTICUM I –Using supervised rotations in a definitive care setting, the students will apply the concepts developed in the didactic and laboratory courses to live patients. This will include but not be limited to rotations in the emergency department, ICU, OR. Respiratory therapy, and pediatrics. (4 Sch.: 0 lecture, 12 Clinical – 180 contact hours) May 2018 change

EMS 1525 PRACTICUM II – A continuation of EMS 1514. Using supervised rotations in definitive care setting, the students will continue to develop assessment and treatment skills. The student will transition to field experience upon receiving competencies in the definitive. (5 Sch.: 9 Lecture, 6 Field -225 hours). May 2018 change

EMS 1713 CONCEPTS OF NEUROLOGICAL MEDICINE – LECTURE/LAB – This course consists of the theory, anatomy, physiology, pathophysiology, and treatments associated with conditions of the nervous system. This includes conditions related to structure and those associated with organic and non-organic brain disease. (3 Sch.: 2 Lecture, 2 Clinical/Field – 60 contact hours)

EMS 1913 CONCEPTS OF REPRODUCTIVE MEDICINE – LECTURE/LAB: This course is required to apply for certification as an Advanced Emergency Medical Technician (AEMT). This course introduces the theory and application of concepts related to the profession of the AEMT. The primary focus of the AEMT is to provide basic and limited advanced emergency medical care and transportation for critical and emergent patients across the lifespan who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transportation. Topics include: expanding the knowledge of the EMT to a more complex breadth and depth, intravenous access and fluid therapy, medication administration, blind insertion airway devices, as well as the advanced assessment and management of various medical illnesses and traumatic injuries. This course is based on NHTSA National Emergency Medical Services Education Standards. Requires licensure or eligibility for licensure at the AEMT level and the EMS course sequence listed before eligibility to rest NREMT AEMT exam is granted exam is granted (3 sch: 2 lecture; 1clinical – 75 contact hours)

EMS 2314 MEDICAL EMERGENCIES OF THE SECONDARY ASSESSMENT – LECTURE/LAB: This course will integrate patient assessment and assessment finds with principles of epidemiology and pathophysiology across the lifespan. At the conclusion of this course, the student will be able to formulate a field impression and implement a comprehensive treatment/disposition plan for a patient with a medical compliant. (4 Sch.: 3 Lecture, 2 Lab – 75 contact hours). May 2018 change

EMS 2566 PACTICUM III – Under the supervision of an approved program preceptor, the student

will continue to apply the concepts developed in the didactic, laboratory, and clinical settings to the care of patients in the environment of EMS. (6 Sch.: 9 clinic, 9 Field). May 2018 change

EMS 2715 CONCEPTS OF TRAUMATIC MEDICINE - LECTURE/LAB: This course will develop the basis for the pathophysiology, identification, and treatment of traumatic emergencies including coverage of concepts related to trauma systems and shock management. These concepts will be examined in patients across the life span. It also includes the trauma laboratory experience to the theoretical concepts developed in the lecture. (5 Sch.: 3 Lecture, 4 Lab – 105 contact hours). May 2018 change

EMS 2912 CONCEPTS EMS OPERATIONS: Knowledge of operational roles and responsibilities to ensure safe patient, public, and personnel safety. (2 Sch.: 2 Lecture – 30 Contact hours) May 2018 change

EMS 2934 PARAMEDIC CAPSTONE – LECTURE/LAB: This course serves as a capstone experience course at the end of the Paramedic Program. This course will include the following topics: special needs patient populations, EMS research, principles of public health, integration of leadership, and emerging roles in EMS. It will also serve as a comprehensive review of the program. This course will provide the student with a final opportunity to incorporate their cognitive knowledge and psychomotor skills through cumulative practical skill evaluations and comprehensive Final Examination. (4 Sch.: 2 Lecture, 4 Lab- 90 contact hours) May 2018 change

NUR 2013 NURSING TRANSITION FOR LPN/RN - This course is designed to facilitate the student's transition from practical nursing to the role of registered nurse. Content in this course is meant to supplement and augment content learned in a practical nurse program. Topics include Nursing Process, Therapeutic Communication, Role Transition, Pharmacology, Expanded Assessment Skills, Computer Skills Orientation and Dosage Calculation. Upon successful completion, the student will progress to the second year of the Associate Degree Nursing program. Pre-requisites: Completion of prerequisites for Associate Degree Nursing program. Credit: 3 credit hours (**2** Hrs. theory/1 hr. Lab

NUR 2124 MENTAL HEALTH NURSING – This course focuses on the application of the nursing process and development of therapeutic communication skills while implementing nursing interventions with clients experiencing a variety of mental health disorders. Clinical practice settings include acute and chronic in- patient settings with adolescent and adult clients. Hospitals and ambulatory care facilities serve as practice settings. Effective and therapeutic communication skills and clinical decision making are integrated. Pre-requisites: NUR 2013. Credit: 4 credit hours⁄3 Hrs. theory and 1hr. Clinical.

NUR 2128 FAMILY HEALTH NURSING – This course focuses on prenatal, labor and delivery, post-partum, immediate delivery and evaluation of the mother, newborn and the impact of the family unit. This course also focuses on children from birth through adolescence (age 18) who may be experiencing an acute or chronic illness, born with a congenital defect/disease or experiencing a problem with normal development and maturation. Normal growth and development, physical assessment, nutrition, parenting skills and scheduled immunizations for well and ill children are addressed. In addition, the course includes specific medical-surgical health disorders covered across the life span. Medication administration, communication skills, and clinical reasoning are emphasized

throughout the course. Pre-requisites: NUR 2013, NUR 2124. Credits: 8 credit hours: 6 Hrs. theory and 2 Hrs. clinical.

NUR 2227 MEDICAL-SURGICAL NURSING- This course emphasizes the nursing process to provide safe effective nursing care to the adult client in an acute care environment to include mastery of skills in system specific assessment, clinical decision making, communication, and technology. Clinical emphasis is placed on caring for adult clients with acute complex health care needs with a focus on medication administration, communication skills, and clinical reasoning. Prerequisites: NUR 2013, NUR 2124, NUR 2128. Credits: 7 credits hours: 4 Hrs. theory and 3 Hrs. clinical

NUR 2223 MANAGEMENT OF CLIENT CARE – This course is all inclusive of previously taught courses with emphasis on patient rights, employer responsibilities, legal/ethical implications of nursing practice, effective use of the nursing process, delegation, prioritizing care, clinical supervision and management styles. Prerequisites: NUR 2013, NUR 2124, NUR 2128. Co-Requisite NUR 2227. Credit: 3 credit hours (2 hours theory and 1 hour clinical).

NUR 2232 NCLEX REVIEW - Computer based multiple choice testing is administered for reinforcement and to promote mastery of content. Students take an online NCLEX review course and complete a comprehensive content mastery program. Prerequisites: NUR 2013, NUR 2124, NUR 2128. Co-requisites: NUR 2227, NUR 2223. Credit: 2 credit

PEV 1116 PHLEBOTOMY BASIC - This is a one semester 240 clock hour certificate course designed to prepare students to practice as a phlebotomist by a combination of didactic instruction (60 clock hours), laboratory (60 clock hours), and clinical practicum (120 clock hours). This course includes 4 sch of lecture, 4 sch of procedures and practices and 8 hours of clinical practicum. (6 sch: 4 lecture, 4 lab, 8 clinical)

PNV 1213--BODY STRUCTURE AND FUNCTION- This course is a study of body structure and function essential to safe and effective nursing care. Each system of the body is covered with applications to nursing. (3 semester credit hours, 3 hour lecture)

PNV 1443--NURSING FUNDAMENTALS AND CLINICAL- This course provides the student with the basic knowledge and skills necessary to care for individual in wellness and illness and is applicable across the life span, as well as demonstration and supervised practice of the fundamentals skills related to practical nursing. (13 sch: 6 hr. lecture, 10 hr. lab, 6 hr. clinical) (Total instructional hours for the courses: 90 hr. lecture, 150 hr. lab, 90 hr. clinical)

PNV 1524—IV THERAPY AND PHARMACOLOGY – This course provides the student with Principles of IV Therapy and pharmacology. Principles covered in the course include the administration of medication, administration of IV fluids, and administration of IV medications included in the scope of practice for the practical nurse. The extended role of IV Therapy included in this course is in accordance with the Mississippi Nursing Practice Law and Administrative Code (4 sch: 3 hr. lecture, 2 hr. lab)

PNV 1682---ADULT HEALTH CONCEPTS AND CLINICAL- This course is designed to provide the student with the basic theory and clinical experiences needed to provide safe, effective care to the adult client experiencing, acute, chronic or life-threatening physical health conditions in all body systems and the knowledge to prepare for the role transition from student to practical

nurse. (12 sch: 8 hr lecture, 4 hr. clinical) (Total instructional hours for the course: 120 lecture, 180 clinical).

PNV 1728---SPECIALITY AREAS IN NURSING- This course provides the student with the basic knowledge and skills to promote and/ or provide safe and effective care for clients and families during antepartum, and postpartum periods as well as infancy through adolescence. It also provides the basic knowledge and skills to assist in the promotion of the emotional, mental, and social well-being of the client and family experiencing a mental health alteration. (8 sch: 7.33 hr. lecture, 2 hr. clinical) (Total instructional hours for the course: 110 hr. lecture, 30 clinical)

PNV 1914--- NURSING TRANSTION- This course prepares student for the role transition and the National Council Licensure Examination (NCLEX-PN). (4 sch: 3 hr. lecture, 3 hr. clinical)

PSG 1113 – POLYSOMNOGRAPHY PATHOPHYSIOLOGY. This course provides an in- depth study of human pathological processes and their effects on homeostasis. Emphasis is placed on interrelationships among organ systems in deviations from homeostasis. Upon completion, students should be able to demonstrate a detailed knowledge of pathophysiology. (3 semester credit hours: 3 lecture hours)

PSG 1116 – INTRODUCTION TO POLYSOMNOGRAPHY. This course introduces the polysomnography profession. Topics include the history of the profession and role of the polysomnographic technologist, communication, time management, infection control, basic patient assessment, and medical gas therapy. Upon completion, students should be able to demonstrate competence in concepts through written and laboratory evaluations. (6 semester credit hours: 4 lecture hours, 6 lab hours)

PSG 1123–POLYSOM TECHNOLOGY. This course introduces the fundamental concepts of electricity and test equipment in the field of polysomnography. Topics include basic DC/AC principles (voltage, resistance, current, impedance), components (resistors, inductors, capacitors), power and operation of test equipment. (3 semester credit hours: 3 lecture hours)

PSG 2214 - PSG SCORING AND ANALYSIS. This course provides an immediate level of scoring and data analysis for polysomnographic testing. Students will learn the procedures necessary to generate and validate a report of the scoring of objectives and subjective data obtained in a polysomnographic study. (4 sch. 4 hr. lecture)

PSG 2224 - POLYSOMNOGRAPHY CAPSTONE. This course is designed to apply the essential elements of polysomnography through the use of case students. Students develop an analytical approach to problem solving. Review of curriculum, test taking skills, and prepare the student for the registry exam. (4 semester credit hours: 4 lecture hours)

PSG 2218 – CLINICAL APPLICATION I. This course provides practical application of theories covered in previous PSG courses. Emphasis is placed on polysomnography testing and procedures. Upon completion, students should be able to demonstrate competence through laboratory evaluation. (8 semester credit hours: 24 clinical hours)

PSG 2227 – CLINICAL APPLICATION II. This course provides practical application of theories

covered in previous PSG courses. Emphasis is placed on polysomnography testing and procedures. Upon completion, students should be able to demonstrate competence through laboratory evaluation. (7 semester credit hours: 21 clinical hours)

PSG 2132 – PROFESSIONAL TRANSITION. This course builds on previous knowledge and skills applicable to the practice of professional polysomnography. This course provides an overview of professional concepts basic to the development of professionalism in polysomnography. Emphasis is placed on changes in the health care environment and the impact on the professional polysomnographer's role. Accountability and responsibility issues as they relate to professional polysomnography are discussed. The students will begin the development of a professional portfolio for use throughout the curriculum and in the professional practice settings. (2 semester credit hours: 2 lecture hours)

RCT 1214--RESPIRATORY CARE SCIENCE--Designed to introduce the student practitioner to fundamental elements important to the delivery of health care in a safe, efficient and professional manner. (4 semester credit hours: 3 lecture hours, 2 lab hours). Prerequisites: BIO 1514 and BIO 1524; program admission; or program director's approval.

RCT 1223--PATIENT ASSESSMENT AND PLANNING--This course is a fundamental approach to subjective and objective evaluation, assessment, and care plan formation for the individual needs of the patient. It is an introduction to cardiopulmonary diseases including etiology, pathophysiology, complications, occurrences, clinical manifestations, treatment, and prevention. (3 semester credit hours: 2 lecture hours, 2 lab hours).

RCT 1313--CARDIOPULMONARY ANATOMY AND PHYSIOLOGY--This course is a study of cardiopulmonary anatomy and physiology in relation to the practice of respiratory care. (3 semester credit hours: 3 lecture hours)

RCT 1322--PULMONARY FUNCTION TESTING--This course is an introduction to pulmonary function techniques and testing equipment with patient data evaluation and recommendation based on pulmonary function results. (2 semester credit hours: 1 lecture hour, 2 lab hours) Prerequisites: RCT 1313, or instructor's approval

RCT 1416--RESPIRATORY CARE TECHNOLOGY I--This course is a study of respiratory treatments, equipment design and operation related to acute care procedures. (6 semester credit hours: 3 lecture hours, 6 lab hours)

RCT 1424--RESPIRATORY CARE TECHNOLOGY II - This course is a continuation of Respiratory Care Technology I. It is a study of the management of respiratory failure, including mechanical ventilation, pulmonary rehabilitation, and home care. (4 semester credit hours: 3 lecture hours, 2 lab hours)

RCT 1516--CLINICAL PRACTICE I--Patient assessment, performance of respiratory care procedures, and care plan formation are practiced in the hospital environment. A procedural guide is utilized to evaluate student competencies and performance of respiratory care procedures. (6 semester credit hours: 18 clinical hours) Prerequisites: BIO 1514, BIO 1524, RCT 1214, RCT 1223, and RCT 1313

RCT 1524--CLINICAL PRACTICE II- This course is a continuation of Clinical Practice 1. Students rotate through various respiratory care subspecialty areas for evaluation of competency and performance of respiratory care procedures. (4 semester credit hours: 12 clinical hours).

RCT 1613--RESPIRATORY CARE PHARMACOLOGY--This course is designed to introduce the student to the pharmacology related to cardiopulmonary disorders. (3 semester credit hours: 3 lecture hours) Prerequisites: RCT 1214, RCT 1313, and RCT 1223

RCT 2333--CARDIOPULMONARY PATHOLOGY--This course is a study of the cardiopulmonary pathophysiology. It includes etiology, clinical manifestations, diagnostics, and treatment of various cardiopulmonary diseases. Case studies and/or clinical simulations will be utilized to enforce learning and evaluate progress. (3 semester credit hours: 3 lecture hours) Prerequisites: RCT 1313

RCT 2434--RESPIRATORY CARE TECHNOLOGY III--This course is an advanced study of respiratory care in the critical care setting. Topics include nonconventional modes of mechanical ventilation, hemodynamics, special procedures, and advanced cardiac life support. (4 semester credit hours: 3 lecture hours, 2 lab hours) Prerequisites: RCT 1523

RCT 2534--CLINICAL PRACTICE III-- This course is a continuation of Clinical Practice I and II. Students will rotate through various clinical areas for evaluation of competency, performance and/or observation of respiratory care procedures. (4 semester credit hours: 12 clinical hours) Prerequisites: RCT 1516 and RCT 1523

RCT 2546--CLINICAL PRACTICE IV--This a continuation of Clinical Practice III. Students rotate through respiratory care areas. A procedural guide is utilized to evaluate student competency and performance. (6 semester credit hours: 18 clinical hours) Prerequisites: RCT 1516, RCT 1523, and RCT 2534

RCT 2613--NEONATAL/PEDIATRICS MANAGEMENT--This course is a study of fetal development and the transition to extra uterine environment. It includes the most common cardiopulmonary disorders, neonatal and pediatric disease processes, and the modes of treatment. (3 semester credit hours: 3 lecture hours) Prerequisite: RCT 2434

RCT 2713--RESPIRATORY CARE SEMINAR--This course is designed to integrate the essential elements of respiratory care practice through the use of care plans, case studies, and clinical simulations in a laboratory environment. Students will develop an analytical approach to problem solving. Critical thinking is emphasized. (Delivery techniques may include traditional face-to face or online) 3 semester credit hours: 2 lecture hour, 2 lab hours) Prerequisites: RCT 1523