

HEALTH SCIENCES PROGRAMS

COURSE DESCRIPTIONS

ASSOCIATE DEGREE NURSING

Nursing courses are offered only to majors and must be taken in sequence. Instructional methods include group discussion, lectures, demonstrations and return demonstrations, audio-visual aides, role-playing, and individual student presentations. Clinical learning experiences are scheduled in a variety of health care agencies throughout the community. Clinical hours are computed using a ratio of 3 lab hours to equal one class hour.

NUR 1119. NURSING I. Nursing I is a fundamental course designed to provide the beginning foundation for nursing practice. The basic concepts, which underline the practice of nursing and problem solving through the use of the nursing process, are explored. Campus lab and clinical experiences provide the opportunity for students to begin to develop critical thinking, communication, and psychomotor skills necessary for safe nursing care of patients who have health problems related to the fulfillment of their basic needs.

Prerequisites: BIO 2513/2511 & BIO 2523/2521

Semester Credit Hours 9: Lecture 6 hours, clinical 9 hours.

NUR 1129. NURSING II. Nursing II focuses on the utilization of the nursing process to provide nursing care through critical thinking for persons who have interferences with nutrition and elimination, oxygenation, mobility, and psychological needs. Emphasis is on health and illness as they relate to these basic needs. Concepts introduced in Nursing I are reinforced. Clinical experiences provide opportunities for students to utilize critical thinking skills as they perform safe, effective nursing care.

Prerequisite: NUR 1119

SCH 9: Lecture 5 hours, clinical 12 hours.

NUR 2119. NURSING III. Nursing III focuses on normal and interferences with psychosocial needs and neuronal needs of persons. It also focuses on maternity and newborn nursing concepts. Current trends and legal aspects of nursing are studied as they relate to health and illness of persons and family members. The concepts of previous nursing courses are reinforced. Hospital and community clinical experiences provide the opportunity for students to incorporate the physical, safety, psychosocial, and cultural needs of persons when providing care. Emphasis is placed on the application of the nursing process while providing safe, effective nursing care.

Prerequisite: NUR 1129

SCH 9: Lecture 5 hours, clinical 12 hours.

NUR 2120. NURSING IV. Nursing IV focuses on growth and development and nursing care of persons from infancy to adulthood who have interferences with hormonal, fluid and electrolytes, and psychosocial basic needs. It also focuses on the principles of managing client care. Historical events, their contribution to health care, and current issues and trends that influence the nursing profession and health care are reviewed. The concepts of previous nursing courses are reinforced. Clinical experiences provide opportunities for students to provide safe, effective nursing care while working with other health team members. Principles of communication, organization, management of client care and legal and ethical implications are emphasized.

Prerequisite: NUR 2119

SCH 10: Lecture 6 hours, clinical 12 hours.

NUR 2211. NURSING REVIEW I. Nursing Review I focuses on the review and reinforcement of essential nursing content introduced in NUR 1119 and NUR 1129. Study techniques to aid in mastery of nursing content are explored. Test taking skills and nursing content are reviewed through the use of computer based multiple choice testing. SCH 1: Lecture 1 hour.

NUR 2221. NURSING REVIEW II. Nursing Review II focuses on the review and reinforcement of essential nursing content introduced in NUR 1119, NUR 1129, NUR 2119, and NUR 2120. Study techniques to aid in mastery of nursing content are explored. Test taking skills and nursing content are reviewed through the use of computer based multiple choice testing.
SCH 1: Lecture 1 hour.

NUR 1313, NUR 1323, NUR 2313, NUR 2321. NURSING SEMINAR. Each course is designed to enhance the student's understanding of a variety of special topics that are of importance in the practice of nursing. Students become actively involved in the learning process by choosing topics of interest and providing information for group discussion through a variety of methods. Through the utilization of independent study and small group interaction students are assisted to develop self directed behaviors and professional attitudes.
SCH 3/1: Lecture 3 hours, 1 hour, respectively.

NUR 2323. NURSING EXTERNSHIP. The externship course is designed to provide nursing students with an opportunity to acquire additional knowledge and enhance their skills in the practice of nursing under the direct supervision of a preceptor while earning monetary compensation. The program is designed to provide the student with an opportunity to gain experience in clinical practice in a particular area in preparation for transition from the role of nursing student to the role of registered nurse. Prerequisites- NUR 1119 and NUR 1129.
SCH 3: Clinical, 40 hours per week or as clinical agency requires.

DENTAL HYGIENE TECHNOLOGY

DHT 1115 FUNDAMENTALS OF DENTAL HYGIENE. This course will provide the dental hygiene student with the fundamental knowledge and skills necessary for interaction with clients. The lecture portion will focus on the history, philosophy, and theories relevant to the profession of dental hygiene. Lecture highlights will include discussion of the latest health care settings, trends, and approaches to comprehensive care. The preclinical portion will provide the student with opportunities for the development of psychomotor skills and opportunities for interaction with clients, which will provide emphasis on trust, care, and responsibility as part of becoming a professional.
SCH 5: Lecture 3 hours, Laboratory 4 hours

DHT 1212 DENTAL ANATOMY. A study of the morphological characteristics of the teeth and supporting structures.
SCH 2: Lecture 2 hours

DHT 1222 HEAD AND NECK ANATOMY. A detailed study of skeletal, muscular, vascular, and neural features of the face, head, and neck.
SCH 2: Lecture 2 hours

DHT 1232 ORAL HISTOLOGY AND EMBRYOLOGY. The microscopic structure and development of types of cells, tissues, and organs of the human body. Also given is a survey of the elements of embryology emphasizing the area of the head and neck, as related to the development of the dental arches, salivary glands, buccal mucosa, pharynx, and tongue.

SCH 2: Lecture 2 hours

DHT 1314 DENTAL RADIOLOGY. This course involves a broad scope of study of radiology and its use by the dentist as a diagnostic aid. Also covered are techniques for making radiographs with safety for hygienist and patient, the processing and mounting of exposed film and their interpretation, and study of anatomical landmarks evident in periapical films.

SCH 4: Lecture 3 hours; Laboratory 2 hours

DHT 1415 CLINICAL DENTAL HYGIENE I. The student will apply the principles and techniques learned from previous didactic and preclinical experiences.

Prerequisites: Fundamentals of Dental Hygiene (DHT 1115)

SCH 5: Lecture 1.5 hours; Clinical 10.5 hours

DHT 1512 PERIODONTICS. An in-depth study of the supporting structures of the teeth is covered in this course. Also included is a clinical and theoretical understanding of their conditions in good health as well as their reaction to bacterial invasion in disease of varying etiology. The theory of clinical application to the management of the advanced periodontal patient to maintain a healthy and functional dental prosthesis is also studied. Prerequisites: Oral Histology and Embryology (DHT 1232) and Dental Anatomy (DHT 1212)

SCH 2: Lecture 2 hours

DHT 1911 DENTAL HYGIENE SEMINAR I . This course provides the student with the opportunity to discuss managing dental office emergencies and professional development.

SCH 1: Lecture 1 hour

DHT 1921 DENTAL HYGIENE SEMINAR II . The course consists of eleven modules covering such topics as leadership philosophy, articulating a vision, leading with goals, decision making, managing your time, team building, delegating, initiating change, managing conflict, ethical leadership, and leading by serving. The “learn-by-doing” approach will allow you to experience first hand the tools necessary to become an effective leader.

Prerequisites: Dental Hygiene Seminar I (DHT 1911)

SCH 1: Lecture 1 hour

DHT 2233 ORAL PATHOLOGY. A study of the etiology and symptomatology of the pathological conditions affecting the head and neck with emphasis on the oral cavity. Prerequisites: Dental Anatomy (DHT 1212), Head and Neck Anatomy (DHT 1222), Oral Histology and Embryology (DHT 1232)

SCH 3: Lecture 3 hours

DHT 2426 CLINICAL DENTAL HYGIENE II. Continuation of the principles and techniques involved in the practice of dental hygiene. Emphasis will be on theoretical background needed to provide advanced clinical skills. Clinical experiences will focus on treatment of clients with moderate to advanced periodontal disease.

Prerequisites: Clinical Dental Hygiene I (DHT 1415)

SCH 6: Lecture 1.5 hours, Clinical 14 hours

DHT 2436 CLINICAL DENTAL HYGIENE III. A culmination of practice and the clinical procedures and theoretical knowledge needed to provide preventive, interceptive, and definitive dental hygiene treatment.

Prerequisites: Clinical Dental Hygiene II (DHT 2426)

SCH 6: Lecture 1.5 hours, Clinical 14 hours

DHT 2613 DENTAL HYGIENE MATERIALS. Study of materials used in dentistry, their physical and chemical properties, and proper manipulation as used in the operatory and laboratory.

SCH 3: Lecture 2 hours, Laboratory 2 hours

DHT 2712 DENTAL PHARMACOLOGY. This course gives a basic introduction to drug actions, their mechanisms, and the reactions of the body to these drugs. Special emphasis is given to the drugs used in the modern dental office including emergency procedures.

SCH 2: Lecture 2 hours

DHT 2813 COMMUNITY DENTAL HEALTH. This course provides an introduction to preventive dentistry as administered on federal, state, and local levels through official and voluntary health agencies. Supervised field experience gives an opportunity to observe and participate in some phases of community and school dental health programs.

SCH 3: Lecture 2 hours, Clinical 3 hours

DHT 2922 DENTAL ETHICS AND LAW. Focus on the ethical and legal aspects of providing dental health care.

SCH 2: Lecture 2 hours

DHT 2931 DENTAL HYGIENE SEMINAR III. This course provides the student with the opportunity to discuss dental disciplines and professional development.

Prerequisites: Dental Hygiene Seminar II (DHT 1921)

SCH 1: Lecture 1 hour

DHT 2941 DENTAL HYGIENE SEMINAR IV. This course provides the student the opportunity to discuss the written registry exam, the clinical simulation exam format, and professional development.

Prerequisites: Dental Hygiene Seminar III (DHT 2931)

SCH 1: Lecture 1 hour

HEALTH CARE (NURSE) ASSISTANT (HCA)

HCA 1115. BASIC HEALTH CARE ASSISTING. This course includes orientation to program policies, developing employability and job seeking skills, applying legal aspects of health care, applying safety considerations, communication and observation skills, medical terminology, and basic health care procedures.

Semester Credit Hours 5: Lecture 1 hour, laboratory 4 hours, clinical 3 hours

HCA 1125. SPECIAL CARE PROCEDURES. This course includes admitting, transferring, and discharging patients; assisting with diagnostic procedures for patients; assisting with treatments for patients; assisting with elimination needs of patients; basic knowledge and skills required to care for the long-term care resident; and CPR/first aid. Safety is emphasized throughout each procedure.

Pre/Co requisite: HCA 1115.

SCH 5: Lecture 2 hours, laboratory 2 hours, clinical 6 hours

HCA 1214. BODY STRUCTURE AND FUNCTION. This course includes study of the structure, function, common disorders, and normal aging-related changes of the integumentary, musculoskeletal, nervous, circulatory, respiratory, digestive, urinary, reproductive, endocrine, and sensory systems; stages of human growth and development; and nutritional needs throughout the life cycle.

Pre/Co requisite: HCA 1115

SCH 4: Lecture 3 hours, laboratory 2 hours

HCA 1312. HOME HEALTH AIDE AND HOMEMAKER SERVICES. This course includes basic knowledge and skills required to care for the homebound patient; and basic knowledge and skills required to provide homemaker services.

Pre/Co requisites: all core courses.

SCH 2: Lecture 1 hour, laboratory 2 hours

MEDICAL LABORATORY TECHNOLOGY (MLT)

MLT 1112. FUNDAMENTALS OF MEDICAL LABORATORY TECHNOLOGY/PHLEBOTOMY. Includes an overview of the field of Medical Laboratory Technology, familiarization with laboratory safety, microscopes, glassware, and equipment. Includes laboratory organization, medical ethics, and employment opportunities. Basic laboratory specimen collection techniques are introduced. Semester credit hours 2: Lecture 1 hour, laboratory 2 hours

MLT 1212. URINALYSIS/BODY FLUIDS. Introduction to urinalysis and laboratory analysis of miscellaneous body fluids. Basic principles of routine and special urine tests, specimen examination through laboratory work. Theory and test profiles presented for miscellaneous body fluids with correlation to disease states.

SCH 2: Lecture 1 hour, laboratory 2 hours

MLT 1313. HEMATOLOGY I. A study of the function of blood, morphology, and maturation of normal cells, blood cell counts, differentials of white cells, and blood collection and handling.

SCH 3: Lecture 2 hours, laboratory 2 hours

MLT 1324. HEMATOLOGY II. The study of abnormal cell morphology and diseases involving blood cells, test procedures used in laboratory diagnosis of hematological disease, normal and abnormal hemostasis, and diagnostic procedures for evaluation of bleeding abnormalities and anticoagulant therapy.

Prerequisites: Hematology (MLT 1313)

SCH 4: Lecture 2 hours, laboratory 4 hours

MLT 1413. IMMUNOLOGY/SEROLOGY. Basic principles of serology/immunology; theory and performance of routine serology tests.

SCH 3: Lecture 2 hours, laboratory 2 hours

MLT 1515. CLINICAL CHEMISTRY. Study of human biochemistry as an aid in the diagnosis of disease processes. Chemistry procedures performed on body fluids for aiding in diagnosis of disease processes.

Prerequisite: Approved Chemistry Elective.

SCH 5: Lecture 3 hours, laboratory 4 hours

MLT 2424. IMMUNOHEMATOLOGY. Collection, processing, storage, and utilization of blood components. Study of immunological principles and procedures for blood typing, cross matching, antibody detection, identification, and investigation of hemolytic disease of the newborn.

Prerequisite: Immunology/Serology (MLT 1413).

SCH 4: Lecture 2 hours, laboratory 4 hours

MLT 2512. PARASITOLOGY. This course covers the morphology, physiology, life cycles, and epidemiology of parasites of animals with emphasis on human pathogenic parasites. Identification of the parasites from human material is also included.

SCH 2: Lecture 1 hour, laboratory 2 hours

MLT 2614. PATHOGENIC MICROBIOLOGY. Basic skills, principles, and techniques for the staining, culturing, isolation, and identification of microorganisms of medical importance are emphasized in this course. Included are techniques used in determining the sensitivity of pathogenic bacteria to different antibiotic and other drugs.

SCH 4: Lecture 2 hours, laboratory 4 hours

MLT 2916, MLT 2926, MLT 2936. CLINICAL PRACTICE I, II, III. Clinical practice and didactic instruction in a clinical affiliate. Areas covered are hematology, clinical chemistry, immunohematology, urinalysis, microbiology, coagulation, and serology.

Prerequisites: MLT core courses.

SCH 6: Each course: 18 semester hours; 28 weeks clinical

PHLEBOTOMY TECHNICIAN

PBT 1113. PHLEBOTOMY. The course includes an overview of the health care delivery system with emphasis on the laboratory and phlebotomy. It includes basic medical terminology, safety, and medical ethics. Basic anatomy and physiology, phlebotomy and dermal puncture techniques, special collections, arterial puncture, and quality assurance are included.

Semester credit hours 3: Lecture 2 hours, laboratory 1 hour

PBT 1122. PHLEBOTOMY PRACTICUM. Required co-requisite for PBT 1113. Clinical practicum to be completed in an affiliated hospital. Requires successful performance of 100 venipunctures and 25 skin punctures. This course may be waived for those who have documented evidence of 6 months phlebotomy experience in a full service hospital within the past 5 years.

SCH 2: 120 clock hours

RADIOLOGIC TECHNOLOGY (RADIOGRAPHY)

RGT 1114. CLINICAL EDUCATION I. This course includes clinical practice and instruction in a clinical affiliate. Areas included are patient care and management, operation of equipment and radiologic procedures.

Semester credit hours 4: Clinical, 200 clock hours, minimum

RGT 1124. CLINICAL EDUCATION II. This course involves clinical practice and instruction in a clinical affiliate. Areas included are patient care and management, radiation protection, operation of equipment and radiologic procedures.

SCH 4: Clinical, 200 clock hours, minimum

RGT 1139. CLINICAL EDUCATION III. This course is a clinical practice and instruction in a clinical affiliate. Areas included are patient care and management, radiation protection, operation of equipment and radiologic procedure.

SCH 9: Clinical, 400 clock hours, minimum

RGT 1213. FUNDAMENTALS OF RADIOGRAPHY. This course is an introduction to Radiologic Technology including professional, departmental, and historical aspects. Included are terminology, medical ethics and fundamental legal responsibilities.

SCH 3: Lecture 3 hours

RGT 1312. PRINCIPLES OF RADIATION PROTECTION. This course is designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and health care organizations are incorporated.

SCH 2: Lecture 2 hours

RGT 1413. RADIATION EXPOSURE I. This course is a study of principles involving manipulation of factors controlling and influencing exposure and radiographic quality. Included are the prime factors of radiographic exposure. Basic technical conversions and problem solving procedures and the production and nature of x-rays are addressed.

SCH 3: Lecture 2 hours, laboratory 2 hours

RGT 1423. RADIATION EXPOSURE II. This course is a continuation of Radiation Exposure I. Included are beam limiting devices, filtration, production and control of scatter and secondary radiation, exposure systems and advanced technical conversions and problem solving. This course presents an introduction to film processing including darkroom design and equipment. Included are chemistry of developing solutions, procedures of general maintenance, quality control, and silver recovery methods.

SCH 3: Lecture 2 hours, laboratory 2 hours

RGT 1513. RADIOGRAPHIC PROCEDURES I. This course includes terminology, principles, and procedures involved in routine radiographic positioning for demonstration of the chest, abdomen, upper extremities and digestive system. Included is a review of radiographic anatomy on each procedure.

SCH 3: Lecture 2 hours, laboratory 2 hours

RGT 1523. RADIOGRAPHIC PROCEDURES II. This course includes principles and procedures involved in the radiographic positioning of the spinal column, pelvic girdle, lower extremities, bony thorax and mobile and trauma radiographic procedures. Included is a review of radiographic anatomy on each procedure.

Prerequisite: Radiographic Procedures I (RGT 1513).

SCH 3: Lecture 2 hours, laboratory 2 hours

RGT 1613. PHYSICS OF IMAGING EQUIPMENT. This course is designed to establish a knowledge base in radiographic, fluoroscopic, mobile, tomographic equipment requirements and design. The content

will also provide a basic knowledge of quality control. Computer applications in the radiologic sciences related to image capture, display, storage and distribution are present.

SCH 3: Lecture 3 hours

RGT 2147. CLINICAL EDUCATION IV. This course is a clinical practice and instruction in a clinical affiliate. Areas included are patient care and management, radiation protection, operation of equipment, and radiologic procedures. Prerequisites: All core courses as scheduled.

SCH 7: Clinical, 350 clock hours, minimum

RGT 2157. CLINICAL EDUCATION V. This course is a clinical practice and instruction in a clinical affiliate. Areas included are patient care and management, radiation protection, operation of equipment and radiologic procedures.

SCH 7: Clinical, 350 clock hours, minimum

RGT 2132. SOCIAL AND LEGAL RESPONSIBILITIES. Legal terminology, concepts and principles will be presented in this course. Topics include misconduct, malpractice, legal and professional standards and the ASRT scope of practice. The importance of proper documentation and informed consent is emphasized. This course will prepare students to better understand their patient, the patient's family and professional peers through comparison of diverse populations based on their value system, cultural and ethnic influences, communication styles, socio-economic influences, health risks and life stages.

Prerequisites: All core courses as scheduled.

SCH 2: Lecture 2 hours

RGT 2532. RADIOGRAPHIC PROCEDURES III. This course includes principles and procedures involved in radiographic positioning of the entire cranium and facial bones, and reproductive systems. Included is a review of radiographic anatomy on each procedure.

Prerequisite: Radiographic Procedures II (RGT 1523).

SCH 2: Lecture 1hour, laboratory 2 hours

RGT 2542. RADIOGRAPHIC PROCEDURES IV. This course is a study of special radiographic procedures, which utilize sterile techniques and/or specialized equipment. It also includes basic concepts of pharmacology.

Prerequisite: Radiographic Procedures III (RGT 1523).

SCH 2: Lecture 2 hours

RGT 1223. PATIENT CARE IN RADIOGRAPHY. This course will provide the student with the basic concepts of patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures will be described, as well as infection control procedures utilizing standard precautions. The role of the radiographer in patient education will be identified. Prerequisite: Core courses as scheduled.

SCH 3: Lecture 2 hours, laboratory 2 hours

RGT 2911. RADIATION BIOLOGY. This course is a study of the biological effects of radiation upon living matter. It includes genetic and somatic effects, instrumentation for detection, and measurement and calculation of dosage.

Prerequisite: Core courses as scheduled.

SCH 1: Lecture 1hour

RGT 2921. RADIATION PATHOLOGY. This course is designed to introduce theories of disease causation and the pathophysiologic disorders that compromise healthy systems. Etiology, pathophysiologic responses, clinical manifestations, radiographic appearance and management of alterations in body systems will be presented. Prerequisite: Core courses as scheduled.

SCH 1: Lecture 1hour

RGT 2933. CERTIFICATION FUNDAMENTALS. This course is designed to correlate scientific components of radiography to entry-level knowledge required by the profession.

SCH 3: Lecture 3 hours

CTM 2113. COMPUTED TOMOGRAPHY. This course is designed to explore the technical principles of Computed Tomography (CT). A review of patient care, contrast media and adverse reactions, common CT procedures and protocols, image characteristics, and image quality control methods are taught.

SCH 3: Lecture 3 hours

CSA 2113. SECTIONAL ANATOMY. This course is designed to study human sectional anatomy, including location, structure, and function, as well as relationships among structures. Radiographs, Computed Tomography (CT) images, and Magnetic Resonance Imaging (MRI) images may be used to demonstrate the characteristic appearance of anatomic structures.

SCH3: Lecture 3 hours.

PRACTICAL NURSING (PNV)

PNV 1112. BASIC NUTRITION. This course consists of a study of nutrition for a normal and healthy person. Digestion, metabolism, and diet therapy are introduced.

Semester credit hours 2: Lecture 2 hours

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.

SCH 3 : Lecture 2 hours, laboratory 2 hours

PNV 1312. GROWTH AND DEVELOPMENT. This course is a study of the normal developmental processes of humans from infancy to death, including physical, emotional, social, and intellectual aspects.

SCH 2: Lecture 2 hours

PNV 1413. GERIATRIC NURSING. This course uses the nursing process to teach the care of the geriatric patient. Clinical experiences in a long-term facility are a component of this course.

SCH 3 : Lecture 2 hour, clinical 3 hours

PNV 1425. FUNDAMENTALS OF NURSING. This course provides the student with knowledge and skills necessary to care for the individual. Study includes beginning use of the nursing process; cause and prevention of illness; patient, family, and community health care provisions; and resource agencies available. The course also includes personal health care, basic math, medical terms, and medical and apothecary system. Included is preparation to assist the patient in meeting basic living needs. Prerequisite:

This course requires concurrent registration in PNV 1434. It also requires a passing grade in PNV 1425 and PNV 1434 to receive credit for these courses.

SCH 5: Lecture 5 hours

PNV 1434. FUNDAMENTALS OF NURSING LAB/CLINICAL. Supervised clinical experience in fundamentals of nursing for all age groups. Develop skills to assist patient in meeting basic living needs, performing basic skills in a geriatric setting.

SCH 4: Laboratory 8 hours, clinical 3 hours, 45 hours

PNV 1513. PHARMACOLOGY. This course is designed to provide the student with appropriate basic theoretical and clinical information related to drugs, including: classifications, sources, dosages, and measurements, regulatory requirements and basic principles of drug administration.

SCH 3 : Lecture 2 hours; laboratory 2 hours

PNV 1614 MEDICAL/SURGICAL NURSING. This course introduces nursing theory for selected medical-surgical disorders. Emphasis is placed on developing and demonstrating an understanding of the role of the practical nurse functioning as an effective team member.

SCH 4: Lecture 4 hours

PNV 1624. MEDICAL/SURGICAL NURSING LAB AND CLINICAL I. This course includes supervised laboratory and clinical experiences for application of medical/surgical theory and the development of skill and the use of nursing process.

SCH 4: Laboratory 2 hours, clinical 9 hours

PNV 1634. ALTERATIONS IN ADULT HEALTH. In this course, the student utilizes the nursing process to assist in meeting daily needs of patients with selected medical-surgical problems. The course introduces nursing theory for selected medical- surgical disorders and nursing skills are introduced. Emphasis is placed on developing and demonstrating an understanding of the role of the practical nurse functioning as an effective team member.

SCH 4: Lecture 4 hours

PNV 1644. ALTERATIONS IN ADULT HEALTH. LAB AND CLINICAL. This course includes supervised clinical experience for application of medical/surgical theory. Develop skill in the nursing process by applying principles and knowledge gained in preceding courses.

SCH 4: Lecture 2 hours, clinical 9 hours

PNV 1716. MATERNAL-CHILD NURSING. This course uses the nursing process to teach care for the expectant mother from conception to delivery, including newborn, child, and the family unit during normal and complicated conditions. Clinical experience includes perinatal labor and delivery, postpartum, newborn, and pediatrics. Prerequisites: all first semester PNV courses.

SCH 6: Lecture 5 hours, clinical 3 hours

PNV 1813. PSYCHIATRIC CONCEPTS. This course provides an introduction to mental health concepts. Emphasis is placed on normal as well as abnormal behavior in application of principles of effective therapeutic communication. Clinical experience will provide application of previously learned theory.

SCH 3: Lecture 2 hours, clinical 3 hours

PNV 1913. NURSING TRANSITION. This course further develops decision-making skills and promotes an interest in continued professional development. Legal aspects of nursing and employment opportunities and responsibilities as well as preparation for the State Board Exam will be included.
SCH 3: Lecture 1 hour, clinical 6 hours

NUCLEAR MEDICINE

Intro to Nuclear Medicine- Provides students an overview of the nuclear medicine specialty including professional issues, technology, credentialing groups, professional development, equipment safety and patient care. 1 hour.

Nuclear Physics- This course covers the concepts and physical principles that govern radioactivity and the interactions of radiation with matter.

Instrumentation I- This section of the curriculum includes the theoretical and practical concepts in radiation detection instrumentation; calibration, maintenance standards; practical uses of gaseous detectors, scintillation detectors and multichannel analyzers; quality assurance testing for nuclear medicine instrumentation including GM detectors, ionization chambers, and scintillation detectors; gamma spectrometry of all commonly used nuclear medicine radionuclides; scintillation cameras. Also included are the principles and applications of statistics related to the use of this equipment.

Nuclear Medicine Procedures I- Applies knowledge of anatomy and physiology of cardiovascular, respiratory, gastrointestinal, urinary, skeletal, endocrine, central nervous, and hematopoietic systems; clinical indications for nuclear medicine procedures; technical aspects of performing nuclear medicine examinations; pertinent pathology. This course surveys the nuclear medicine procedures currently in practice, currently used radiopharmaceuticals for organ visualization and function.

Radiopharmacy- This course covers the theory and practice of radiopharmacy including preparation, calculation of the dose to be administered, quality control, radiation safety, and applicable regulations. Non-radioactive interventional drugs are included in the study. Students will rotate through a radiopharmacy to become proficient in this area.

Clinical I- This course includes directed clinical practice of the theories and practices presented in the classroom; instrumentation quality control; and applied radiation safety procedures. Students are assigned experiences in clinical imaging and radiopharmaceutical preparation.

Instrumentation II- This course covers the use and quality control of various types of systems used for gamma and positron imaging, including the advanced application of radiation detection theory; principles of in vivo and in vitro counting and imaging using probe counters, well counters, and scintillation cameras; introduction to SPECT technology; scintillation camera quality control; types of collimators, their use and function in nuclear medicine; computer fundamentals and software; operating systems.

Nuclear Medicine Procedures II- A continuation of Procedures I. In vitro procedures are introduced. Specific diseases and disorders will be included.

Radiation Protection- This course includes the interactions of radiation with human tissue, its potential effects, and dosimetry. This background knowledge will enable the student to understand the concepts and importance of radiation protection: dose-limiting regulations for occupationally and non-occupationally

exposed individuals, radiation surveys; techniques and decontamination methods; monitoring radioactive waste, radiation dose measurements, and radionuclide accountability; precautions with brachytherapy patients, patients receiving therapeutic amounts of radionuclides, and management of accidentally contaminated individuals.

Clinical II- Students continue to practice skills in patient care and communication, radiation protection, instrumentation, radiopharmacy and advanced procedures.

Clinical III- Continuation of advanced nuclear medicine imaging procedures as well as positron emission tomography (PET) application.

EMERGENCY MEDICAL TECHNICIAN

EMT 1116 This semester program (110 hour minimum) course provides classroom and laboratory instruction for entry level Emergency Medical Technicians following the current National DOT curriculum. Emergency Medical Technician-Basic is an instructional program that prepares individuals to function in the pre-hospital environment. The EMT-Basic program provides instruction in basic life support care of sick and injured persons. This includes airway assessment, communications, documentation, general pharmacology, hemorrhage control, ambulance operations, and splinting of adult, pediatric, and infant patients; and special care of patients exposed to heat, cold, radiation, or contagious disease.