



**BIOL 1515 HUMAN ANATOMY AND PHYSIOLOGY**

Structure and function of the human body. Emphasis is on the study of functions in the body and a basic knowledge of gross anatomy. Lecture: five hours per week. This course does not fulfill the anatomy and physiology requirements for the nursing program. Prerequisites: [R] [Sci] MATH 0104

**MFP 1147 EMT BASIC**

This course is designed to prepare students to the level of Emergency Medical Technician (EMT) - Basic, so they will be both eligible for National Registry/Oklahoma Licensure as an EMT and competent at the level expected of an entry level EMT. The course develops skills in symptom recognition and in all emergency care procedures currently within the responsibilities of an EMT providing emergency medical care with an ambulance service or emergency medical service initial response agency. Lab: three hours per week. Prerequisite: standard OSU-Oklahoma City admission requirements.

**MFP 2211 EMERGENCY VEHICLE OPERATION**

This course introduces Fire and EMS personnel to Law and Liabilities, preventive maintenance, emergency response considerations, crash and injury prevention and safe driving techniques. Meet NFPA 1002 & 1451.

**MFP 2333 RESCUE AWARENESS**

This course will discuss the varying involvement of EMS personnel in rescue operations, scene safety, including HAZMAT, assessing and treating contaminated patients, crime scene operations, preserving evidence, medical incident command, surface and under the surface water rescues, vehicle rescues and search techniques. Prerequisite: MFP 1147.

**MFP 2549 PARAMEDIC CARE III**

This course is a study of the assessment and management of neurological, endocrine, allergies and anaphylaxis, gastroenterology, urology, toxicology, environmental conditions, infectious diseases, psychiatric, and hematological emergencies. Discussion and review of the following: the respiratory system anatomy, physiology and pathophysiology, respiratory emergencies emphasizing recognition and treatment of these problems. This course is also designed to give the student the knowledge to administer and interpret the 12-lead ECG. Students will be required to complete 108 hours of clinical rotations. Prerequisite: MFP 1348.

**MFP 2558 PARAMEDIC CARE IV**

This course will discuss and review the female reproductive system anatomy, physiology, pathophysiology, and the recognition and management of normal and complicated pregnancy and delivery. Discussion and review of the following: the recognition and management of gynecological emergencies and the anatomy and physiology of pregnancy. It will also provide an overview of common and uncommon pediatric emergencies encountered as well as presenting specialized pediatric assessment techniques and emergency procedures. This course will also discuss the specialized world of neonatology, pediatrics, geriatrics and their assessment and treatment. Other discussion and review of the following: the abused and assaulted patient, their assessment and treatment; and the assessment and treatment of the chronic-care and the challenged patient; as well as assessment-based management. Students will be required to complete 156 hours of clinical rotations. Prerequisite: MFP 2549.

**MFP 1249 PARAMEDIC CARE I**

This course will prepare the paramedic student for medication administration, venous access, advanced airway and ventilation. It will include clinical time in the operating room and emergency department. It is designed to cover the well being of paramedics, their roles and responsibilities, injury and illness prevention, medical/legal issues, ethics, therapeutics communications and life span development. Discussion and review of the following: medical mathematics, history taking, techniques of physical examination, patient assessment, clinical decision-making, communications and documentation. Upon successful completion of this course the paramedic student will be able to define normal cellular physiology, how cells respond and change to injury, genetics and other causes of disease, self-defense mechanisms, inflammation, and variances of immunity stress and disease. Students will be required to complete 84 hours of clinical rotations. Prerequisites: MFP 1147 and BIOL 1515.

**MFP 1348 PARAMEDIC CARE II**

This course is designed to cover the structure and function of the human heart and how it relates to electrophysiology and dysrhythmia analysis. It is also designed to give the student the basic knowledge, skills and confidence to successfully interpret ECG strips in the patient care setting. Upon completion of this course the paramedic student will be able to summarize and correctly interpret the legal standards of drug therapy; identify and correctly interpret actions of emergency drugs; accurately calculate doses, dosage and routes of administration for emergency patients based on indications, contraindications, standing orders, verbal orders and accepted pre-hospital care protocols; and demonstrate correct aseptic techniques in preparation and administration of drugs. In addition, this course will discuss the nature of trauma and its cost to society, the concepts of trauma care systems and role of the paramedic in trauma care. Discussion will include the following: blunt force trauma, triage protocols and physiology of injuries. Students will be required to complete 88 hours of clinical rotations. Prerequisite: MFP 2333 and MFP 1249, Co-requisite: MFP 2333.