

## **COURSE DESCRIPTION UPDATES**

### **RE: The following course descriptions have been updated beginning Fall 2023**

#### **BET 200 Introduction to Biomedical Electronic Systems. 3 hrs. (2-1)**

PREREQUISITE: Admission to program

This course is an introduction into theory and patient safety. Included in the course are rules and regulations associated with mechanical and electrical equipment. Upon completion of the course, the student will be able to test and measure for unsafe potentials and currents in medical devices. (F)

#### **BET 201 Pulse and Computer Circuits. 3 hrs. (2-1)**

PREREQUISITE: Admission to program

The purpose of this course is to acquaint the student with the concepts necessary to troubleshoot microprocessor-based circuits found in medical devices. Students will construct and use basic database programs for medical equipment management. Upon completion of this course, the student will be able to repair and troubleshoot computer circuits found in medical devices. (F)

#### **BET 202 Biomedical Electronic Systems I. 3 hrs. (2-1)**

PREREQUISITE: Admission to program

Included in this study are many of the medical devices that are used in the medical profession. Upon completion of this course, the student will be able to troubleshoot basic communications systems currently used in hospitals. (Sp)

#### **BET 203 Biomedical Electronic Systems II. 3 hrs. (2-1)**

PREREQUISITE: Admission to program

This course is a continuation of BET 202. Included in this course is the technical information needed to safely operate an assortment of medical monitoring equipment. The student upon completion of this course will be able to repair and troubleshoot problems associated with various medical devices. (Su)

#### **BET 204 Clinical On-Site Study. 4 hrs. (Clin 12)**

PREREQUISITE: Admission to program

The purpose of this course is to assign each student to a local hospital facility working as a trainee. Students will work with qualified individuals in the field. The student upon completion of this course will be qualified as an entry-level employee for a hospital or vendor. (Su)

#### **BET 205 Law and Legal Issues in HTM. 3 hrs.**

PREREQUISITE: Admission to program

The purpose of this course is to acquaint the student with current law and news as it relates to Biomed. The student will research current and past legal decisions related to Biomed. Upon completion of this course, each student will be able to research and know how to find any and all legal and safety procedures that are related to the handling of medical devices and search periodicals for current legal issues. (Su)

#### **EMS 155 Advanced Emergency Medical Technician. 7 hrs. (4-3)**

PREREQUISITE: Admission to the EMS Program and a valid Alabama EMT License or finished an accredited EMT course within 30 days of the first day of class.

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 who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transportation. Topics include: extending 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 the NHTSA National Emergency Medical Services Education Standards. Requires licensure or eligibility for licensure at the EMT level and EMS 156 must be taken as a corequisite.

**EMS 242 Paramedic Patient Assessment. 2 hrs. (1-1)**

PREREQUISITE: EMS 189 or BIO 201 and a valid Alabama Advanced EMT License or finished an accredited Advanced EMT course within 30 days of the first day of class.

This course provides the knowledge and skills needed to perform a comprehensive patient assessment, make initial management decisions, and to communicate assessment findings and patient care verbally and in writing. Content areas include: airway management, history taking, techniques of the physical examination, patient assessment, clinical decision making, communications, documentation, and assessment-based management.

**SPH 227 Argumentation and Debate. 3 hrs.**

PREREQUISITE: None

This course introduces argumentation and debate and methods of bringing reasoned discourse to bear on personal and social problems. It includes investigations into the various types of debates with emphasis on the use of evidence, logic, responsibility of the advocate, and the composition of language for oral controversy. (F, Sp, Su)

**SUMMARY OF CHANGES**

- BET 211 was changed to BET 200 and renamed to simplify the numerological order and course naming convention to assist with student/instructor advising and streamline course registration. Also changed hours from 3 theory 0 lab 3 credit to 2 theory 1 lab 3 credit.
- BET 233 was changed to BET 201 and course title renamed; Also changed hours from 3 theory 0 lab 3 credit to 2 theory 1 lab 3 credit.
- BET 222 was changed to BET 202 and course title renamed; Also changed hours from 3 theory 0 lab 3 credit to 2 theory 1 lab 3 credit.
- BET 234 was changed to BET 203 and renamed to simplify the numerological order and course naming convention to assist with student/instructor advising and streamline course registration.
- BET 240 was changed to BET 204 to simplify the numerological order and to assist with student/instructor advising and streamline course registration.
- BET 241 was changed to BET 205 and renamed to simplify the numerological order and course naming convention to assist with student/instructor advising and streamline course registration.
- EMS 155 was reduced from 8 to 7 credit hours to bring the Jefferson State Community College EMS program into compliance with the ACCS Course Directory.
- EMS 242 was reduced from 3 to 2 credit hours to bring the Jefferson State Community College EMS program into compliance with the ACCS Course Directory.
- SPH 227 is now offered each term.