

EET 180 - BIOMEDICAL EQUIPMENT I

- Assess the competencies of the certification exam, identifying a plan for attainment.

Course Description

This course introduces the learner to the field of the biomedical equipment technology and the role of the technician. Safety, patient care, ethics, regulatory requirements, healthcare equipment technology and function will be emphasized. Proper procedures and protocols for the calibration, test and troubleshooting of medical equipment will be developed. Common diagnostic equipment will be used for signal analysis. The course will begin the preparation for the CBET certification exam. Group 2 course.

Credit Hours

3

Contact Hours

4

Lecture Hours

2

Lab Hours

2

Required Prerequisites

BIO 106, EET 204, HAH 101

Course Learning Outcomes

Knowledge:

- Describe the role of the biomedical equipment technician in a healthcare setting.
- Describe the requirements needed to advance in biomedical equipment technology.

Application:

- Apply regulatory requirements to healthcare facilities situations.
- Analyze the theory of operation, function, and application of healthcare technology.

Integration:

- Distinguish between healthcare technologies based on application, scenario, and/or function.
- Incorporate proper protocols for the calibration and testing of medical devices.

Human Dimension:

- Identify appropriate responses for public safety situations in the healthcare environment.
- Collaborate with a team, recognizing their role within patient care.

Caring - Civic Learning:

- Apply ethical knowledge and decision making to biomedical technology scenarios.
- Reflect on the impact of a biomedical equipment technician on the care of patients.

Learning How to Learn: