



Wayne County Community College District

COURSE SYLLABUS

BET 110 – Bio-Medical Instrumentation and Safety I

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:

Students will be introduced to the Bio-Medical profession and terminology. Usage, definition, pronunciation and spelling of terms related to anatomy, medical equipment, electronic test equipment and safety will be introduced. Students will become aware of the fundamentals of medical equipment and testing concepts.

PREREQUISITES: *EE101, EE102, EE107, EE111, EE115, EE205, CT205, CT209, ENG134, BIO155*

EXPECTED COMPETENCIES:

Upon successful completion of the course, the student will able to:

- Demonstrate an understanding of the components in an ECG Waveform.
- Demonstrate an understanding of the components in a Blood Pressure Waveform.
- Illustrate the components of an ECG Waveform in relationship to a Blood Pressure Waveform.
- Demonstrate an understanding of how to utilize a Safety Analyzer.
- Demonstrate an understanding of how to utilize a Defibrillator Analyzer.
- Demonstrate an understanding of how to utilize a Non Invasive Blood Pressure Tester.
- Demonstrate an understanding of how to utilize a Patient Simulator.
- Identify safety precautions within a hospital setting.

ASSESSMENT METHODS:

Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:

90%-100% = A
80%-89.9%= B
70%-79.9%= C
60%-69.9%= D
<60% = E