ENGINEERING TECHNOLOGY - BIOMEDICAL TECHNICIAN, ASSOCIATE OF APPLIED SCIENCE

NMC Code 546

Engineering technology education focuses primarily on the applied aspects of science and engineering aimed at preparing graduates for practice in that portion of the technological spectrum closest to product improvement, manufacturing, construction, and engineering operational functions.

The NMC Engineering Technology degree offers students a broad-based curriculum across all areas of technical education, preparing the graduates for emerging job markets and highly technical fields.

NMC has created a unique training center that specializes Biomedical Technology. This specialty offers an in-depth knowledge of the high technology equipment used in hospitals, clinics, and medical facilities. Biomedical technicians work on a variety of equipment, from manual blood pressure units to computer networking to radiology modalities. Technicians go almost everywhere in the hospital environment and are involved in patient care, both directly and indirectly.

Areas of Emphasis:

- Electronics
- Medical Terminology
- Networking Technologies
- Biomedical Equipment

Within this degree students will have the opportunity to earn the following: CSWA Certified Solidworks Associate, ISPS Connector and Conductor, and PCEP- Certified Entry-Level Python Programmer.

Requirements

Major Requirements

Course	Title	Credits
General Education Requirements		
ENG 111	English Composition	4
Select one of the following:		3-4
ENG 112	English Composition	
ENG 220	Technical Writing	
BUS 231	Professional Communications	
PHL 105	Critical Thinking	3
Math Competency [1]		4
BIO 106	Human Biology	4
PSY 101	Introduction to Psychology	3
Technical Specialty Requirements		
DD 170	CADD/Computer Modeling	4
EET 102	Intro to Engineering Tech	2
EET 103	Electrical Studies I	3
MFG 104	Fluid Power	3
RAM 155	Microcontroller Programming	3
RAM 205	Microcontroller Systems	3
Biomedical Technician		
CIT 213	Networking Technologies	4
EET 180	Biomedical Equipment I	3
EET 190	Biomedical Internship	1
EET 204	Electrical Studies II	3
EET 281	Biomedical Equipment II	3
EET 290	Engineering Tech Internship	3
HAH 101	Medical Terminology	3
Approved Technical Elective		3
Total Credits		**62-63**

[1] Placement into MTH 121 College Algebra ***or*** higher, ***or*** completion of MTH 111 Intermediate Algebra or MTH 120 Mathematical Explorations with a 2.0 or higher

Minimum Program Requirements 60

Note: *Internship opportunities are available for additional credits*.

Course Sequence Guide

Course	Title	Credits
Year 1		
Fall		
ENG 111	English Composition	4
EET 102	Intro to Engineering Tech	2
EET 103	Electrical Studies I	3
RAM 155	Microcontroller Programming	3
HAH 101	Medical Terminology	3
	Credits	**15**
Spring		
Select one of the following:		3-4
ENG 112	English Composition	
ENG 220	Technical Writing	
BUS 231	Professional Communications	
RAM 205	Microcontroller Systems	3
EET 204	Electrical Studies II	3
BIO 106	Human Biology	4
	Credits	**13-14**
Year 2		
Fall		
DD 170	CADD/Computer Modeling	4
EET 180	Biomedical Equipment I (Fall only)	3
MFG 104	Fluid Power	3
MTH 121	College Algebra	4
PSY 101	Introduction to Psychology	3
	Credits	**17**
Spring		
PHL 105	Critical Thinking	3
CIT 213	Networking Technologies	4
EET 190	Biomedical Internship	1
EET 281	Biomedical Equipment II	3

Approved Elective (see advisor)		3
	Credits	**14**
Summer		
EET 290	Engineering Tech Internship	3
	Credits	**3**
	Total Credits	**62-63**

The responsibility for determining the transferability of this degree and courses to another institution is the sole responsibility of the student.