Electrical Engineering Technology - Biomedical Equipment Major (BMT)

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Graduates of the program Electrical Engineering Technology - Biomedical Equipment Major are welcomed in hospitals and companies where medical equipment is designed, tested, installed, and operated because of their strong background in electronics and information systems along with knowledge of specialized biomedical equipment.

Graduates of the Biomedical Equipment Major earn an Associate of Applied Science degree and are prepared to take on the challenging tasks of hospital healthcare technology management, maintaining multi-million dollar equipment, such as MRI, CT, sonogram, X-ray, and other medical equipment. The curriculum also provides an effective foundation for transfer into a related bachelor's degree program.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit our Admissions Page (http://www.cincinnatistate.edu/academics/admission)

Electrical Engineering Technology - Biomedical Equipment Major (BMT)

Semester 1		**Lec**	**Lab**	**Credits**
EET 131	Circuit Analysis 1 (**B**)	3	2	4
MAT XXX	Mathematics Elective 1 (**G**)	3	2	4
ENG 101	English Composition 1 (**G**)	3	0	3
FYE 1XX	First Year Experience Elective (**B**)	1	0	1
Semester 2				
EET 132	Circuit Analysis 2 (**T**)	3	2	4
CIT 190	Career Preparation: Engineering and Information Technologies (**B**)	1	0	1
EET 121	Digital Systems 1 (**T**)	2	3	3
BMT 161	Biomedical Instrumentation 1 (**T**)	3	3	4
Semester 3				
EET 291	Full-Time Cooperative Education 1: Electronics Engineering Technology (**T**)	1	40	2
NETC 121	Network Communications 1 (**B**)	2	2	3
MAT XXX	Mathematics Elective 2 (**B**)	3	2	4
Semester 4				
BIO 117	Human Body in Health and Disease (**B**)	3	0	3
ESET 251	Electronics (**T**)	3	2	4
PHY XXX	Physics Elective (**G**)	3	2	4
EET 122	Digital Systems 2 (**T**)	2	3	3
Semester 5				
ENG 10X	English Elective (**G**)	3	0	3
BMT 262	Biomedical Instrumentation 2 (**T**)	3	3	4
EMET XXX	Electro-Mechanical Engineering Technology Elective (**T**)	2	3	3
EET XXX	Electrical Engineering Technology Elective 1 (**T**)	2	3	3
Semester 6				
EET XXX	Electrical Engineering Technology Elective 2 (**T**)	1	40	2
ECO 10X	Economics Elective (**G**)	3	0	3
Total Credits:		50	112	65

Electives

Mathematics Elective		8
Take one of the following series:		
MAT 125 & MAT 126	Algebra and Trigonometry and Functions and Calculus	
Or		
MAT 251 & MAT 252	Calculus 1 and Calculus 2	
First Year Experience Elective		
FYE 100	College Survival Skills	1
FYE 105	College Success Strategies	2
FYE 110	Community College Experience	3
Physics Elective		
PHY 151	Physics 1: Algebra and Trigonometry-Based	4
PHY 201	Physics 1: Calculus-Based	5
English Composition Elective		
ENG 102	English Composition 2: Contemporary Issues	3
ENG 103	English Composition 2: Writing about Literature	3

ENG 104	English Composition 2: Technical Communication	3
ENG 105	English Composition 2: Business Communication	3
Electro-Mechanical Engineering Technology Elective		3
EMET 240	Programmable Logic Controllers, Motors, Motor Controls, and Kinematics	3
EMET 245	Laser 1	3
EMET 270	Robotics and Servomechanisms	4
Electrical Engineering Technology Electives		3
Any EET (2XX level)		
or, Any ESET (2XX level)		
or, Any PSET		
or, Any EMET not used to fulfill the Electro-Mechanical Engineering Technology Elective		
Economics Elective		
ECO 105	Principles of Microeconomics	3
ECO 110	Principles of Macroeconomics	3

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

Faculty

Program Chair

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Co-op Coordinator

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