



Biomedical Engineering Technology

Associate in Science | Code: 26053 | 60 credits

CIP (1615040102)

Effective Term: Fall 2024 (2247)

The Biomedical Engineering Technology program prepares students for employment as Biomedical Engineering Technicians and Technologists and in related occupations in health-related fields. The program also provides supplemental training for persons currently or previously employed in these occupations. The program focuses on the understanding and applying of concepts in electronics, in addition to troubleshooting techniques, to digital, microprocessor, or computer-based systems as they relate to medical devices. Assembly, installation, operations maintenance, calibration, trouble-shooting, repairing and elementary design on medical systems are taught using an integrated, applied and theoretical approach.

GENERAL EDUCATION REQUIREMENTS (15.00 Credits)

COMMUNICATIONS (3.00 credits)

ENC 1101	English Composition 1	(3 credits)	Prerequisite: Student must meet the Developmental Education reading and writing requirements in State Rule 6A-10.0315 (by course, placement score, or eligible exemption).
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HUMANITIES (3.00 credits)

ARH 1000	Art Appreciation	(3 credits)	
HUM 1020	Introduction to Humanities	(3 credits)	
LIT 2000	Introduction to Literature	(3 credits)	Prerequisite: ENC 1101
MUL 1010	Music Appreciation	(3 credits)	
PHI 2010	Introduction to Philosophy	(3 credits)	
THE 2000	Theatre Appreciation	(3 credits)	

MATHEMATICS (3.00 credits)

MAC 1105	College Algebra	(3 credits)	Prerequisite: MAT 1033*
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*Note: Students must seek advisement for proper mathematics course from discipline chairperson.

NATURAL SCIENCE (3.00 credits)

BSC 1005	General Education Biology	(3 credits)	
BSC 2085	Human Anatomy and Physiology 1	(3 credits)	Corequisite: BSC 2085L

SOCIAL SCIENCE (3.00 credits)

AMH 2010	History of the US to 1877	(3 credits)
AMH 2020	History of the US since 1877	(3 credits)
POS 2041	American Federal Government	(3 credits)

COMPUTER COMPETENCY

Test type(s) needed:

Computer Competency Test (CCT)

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CGS 1060C	Introduction to Computer Technology & Applications
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MAJOR COURSE REQUIREMENTS (37.00 Credits)

CET 1110C	Digital Circuits	(4 credits)	Prerequisite: EET 1015C, MAC 1105; Pre/Corequisite: COP 2270
CET 1487C	Network+	(3 credits)	
COP 2270	"C" for Engineers	(4 credits)	Pre/Corequisite: MAC 1105
EET 1015C	Direct Current Circuits	(4 credits)	Prerequisite: MAC 1105
EET 1025C	Alternating Current Circuits	(4 credits)	Prerequisite: EET 1015C;

EET 1141C	Electronics 1	(4 credits)	Pre/Corequisite: MAC 1114 or 1147 Prerequisite: EET1025C, and MAC 1114 or MAC 1147
EET 2101C	Electronics 2	(4 credits)	Prerequisite: EET 1141C
ETS 2673C	Programmable Logic Controllers	(4 credits)	Prerequisite: CET 1110C
HIM 2472	Medical Terminology	(3 credits)	
MAC 1114	Trigonometry	(3 credits)	Prerequisite: MAC 1105 or MAC 1106

PROGRAM ELECTIVE (8.00 Credits)

Electives are restricted to courses listed below:

BSC*, CET*, EET*, ETI*, ETS*, MAC*

ETM 1315C	Applied Pneumatics and Hydraulics	(3 credits)	Pre/Corequisite: MAC 1105
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