

Biomedical Engineering Technology Program

Information and Application Packet 2021-2022

PROGRAM DESCRIPTION

The Biomedical Engineering Technology (BMET) Program will prepare the student to maintain and repair medical equipment in hospital, labs, and industry. A Biomedical Engineering Technician tests, adjusts, and repairs biomedical or electromechanical equipment used in medical therapy, diagnosis, and research. Please note the following:

- Biomedical Engineering Technology courses are offered primarily at the MEC- Manufacturing and Engineering Center in the evenings.
- The Biomedical Technology program requires that students complete two internships. Both internships take place off-campus and require a *minimum* of twenty-four (24) hours each week.
- Students who satisfactorily complete all program/college requirements qualify for an Associate of Applied Science Degree.
- The BMET Program meets the educational requirement for graduates seeking certification by the Board of Examiners for Biomedical Equipment Technicians, operating under the direction of the United States Certification Commissions (USCC) and the Advancing Safety in Health Technology (AAMI) Credentials Institute.

APPLICATION REQUIREMENTS

The Biomedical Engineering Technology (BMET) requires an application (attached to the end of this packet). To be admitted to the program the student must complete the following:

1. Apply to Schoolcraft College	Apply to Schoolcraft College on-line at www.schoolcraft.edu				
2. Transcripts	It is recommended you request official undergraduate transcripts from <u>all</u> colleges and universities previously attended. Transcripts must be sent directly from the issuing college or university to Schoolcraft College. To confirm that transcripts have been received, contact the Answer Center at 734-462-4426.				
3. Academic Advising and Assessment	This program requires minimum assessment levels or course work in the areas of math, reading and writing. Students should have placement scores (Computer Placement Test, ACT, or SAT) submitted prior to meeting with an academic advisor. Students with prior college-level work or a degree may be exempt from placement testing. The Computer Placement Test (CPT) is taken in the Testing Center. ACT or SAT scores must be less than three years old.				
	Contact the Academic Advising at 734-462-4429 to make an appointment.				
4. College Prerequisite Coursework	Complete BIOL 105 Basic Human Anatomy & Physiology with a grade of 3.0 or better. Complete ELECT 131 Basic Measurement & Reporting Skills with a grade of 2.5 or better. Complete ELECT 137 Complete ELECT 138 Complete ELECT 138 Complete ELECT 139 Complete ELECT 139 Complete ELECT 130 Complete ELECT 180 Complete ELECT 180 Complete ELECT 215 Complete ELECT 210 Digital Logic Circuits with a grade of 2.5 or better. Time Limits: All Electronic transfer courses and Schoolcraft College Electronic courses completed over 5 years prior to program application require testing for credit.				
5. Cumulative GPA	Attain a cumulative grade point average at Schoolcraft College of <u>2.5</u> or better.				
6. Apply to Biomedical Engineering Technology Program	Meet with a Schoolcraft academic advisor. Completion of all sections of this application with signatures from academic advisor is required to be accepted into the Biomedical Engineering Technology Program. Submit the attached Biomedical Engineering Restricted Enrollment Form to the Registration Center.				

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OPEN/SUPPORTING COURSES

Admission to the Biomedical Engineering Technology Program is <u>not</u> necessary to register for the courses listed below. The following courses are open to all Schoolcraft students who have met the course prerequisite (see the College Catalog).

ENG 101 English Composition 1

ENG 102 or 116 English Composition 2 or Technical Writing

Humanities See online Catalog for General Education Humanities

(COMA 103 Fundamentals of Speech Recommended)

MATH 102 Technical Mathematics

Social Sciences See online Catalog for Social Sciences Options

(PSYCH 153 Human Relations Recommended)

2 Electives See online Catalog for BMET Program Elective

REGISTRATION PROCEDURE

After acceptance into the Biomedical Engineering Technology Program, BMET students require official authorization to register for BMET courses. Additional detailed information is available from the Occupational Program's Office (734-462-4530), located in the Applied Science Building, Room 581. An authorization to register is only issued upon completion of the following requirement:

☐ Maintain a cumulative grade point average of 2.5 or better

INTERNSHIP REQUIREMENT

Based on the location of your internship some or all of the following may be required:

- 1. Some internship sites may require physical exams and/or drug tests prior to selection for an internship.
- 2. Reference Check
- 3. Photo ID- Original and photocopy of your valid Driver's License or State ID or other photo ID, if neither is available.
- 4. Immunization- Documentation of Measles, Mumps, and Rubella (MMR) Immunization (if you were born after 1956), documentation of negative TB test within the past six months or a recent chest X-ray, and a Health/Medical Insurance card (if applicable). If needed, a TB test will be provided at the time of the interview.

Please note: Individuals who have a felony conviction in their past are likely to have difficulty securing employment in the Biomedical Technology field.

ESTIMATE OF TUITION AND FEES

BIOMEDICAL ENGINEERING TECHNOLOGY PROGRAM (Based on 68 Credits)

	Resident	Non-Resident	Out of State
Tuition:	\$ 8,568.00	\$12,376.00	\$17,816.00
Registration Fees:	\$ 258.00	\$ 258.00	\$ 258.00
Service Fee:	\$ 544.00	\$ 544.00	\$ 544.00
Instructional/Equipment Fees:	\$ 680.00	\$ 680.00	\$ 680.00
Infrastructure Fee:	\$ 544.00	\$ 544.00	\$ 544.00
Course Fees:	\$ 636.00	\$ 636.00	\$ 636.00
TOTAL:	\$11,230.00	\$15,038.00	\$20,470.00

The above figures are based on 2021-2022 rates and are subject to change. A Resident student is one whose legal residence is in the school districts of Clarenceville, Garden City, Livonia, Northville, Plymouth-Canton or parts of Novi. All other students are Non-Residents or Out-of-State.

Estimate of tuition and fees does not include the cost of textbooks

NOTE

Requirements for admission to the Biomedical Engineering Technology Program are subject to change at any time.

Please contact the Admissions and Welcome Center for updates of any applicable changes.

Phone: 734-462-4683 Fax: 734-462-4552 E-mail: admissions@schoolcraft.edu Web: www.schoolcraft.edu

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Biomedical Engineering Technology

Restricted Enrollment Application 2021-2022

This application is required for the Biomedical Engineering Technology Program.

- 1) Are admitted to Schoolcraft College.
- 2) Review and meet all requirements on this application. Program requirements are subject to change.
- 3) Submit appropriate transcripts and complete assessment requirement unless exempt.
- 4) Meet with an academic advisor to review your progress toward meeting program requirements and to obtain appropriate signatures.
- 5) Completion of <u>all</u> sections of this application with signatures from an academic advisor is required to be accepted into the Biomedical Engineering Technology program and submit a Restricted Enrollment Program Change Form to the Registration Center. Applications are accepted on a continuous basis.

Name							
	Last (Family Na	ame)	F	First	Middle	F	ormer (If Applicable)
Address							
•	Number	Street	Apt.	City		State	Zip + 4 Digit Code
Day Phone	()		Evening P	hone <u>(</u>)	
Email				Birth Date	<u> </u>		
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Student Nur	mber			_ Social Sec	curity Number		ant 4 Dimite
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THE ITEMS IN SECTION II ARE REQUIRED. MEET WITH AN ACADEMIC ADVISOR TO OBTAIN APPROPRIATE SIGNATURES BEFORE APPLYING TO THE PROGRAM.

Part A: ASSESSMENT TESTING Take an assessment test unless you are exempt (approved by an academic advisor. Assessment Test Scores are valid for up to three years.

Student:		Academic Advisor Signature	Date
	has taken assessment test or \Rightarrow		
	is exempt from assessment.		

Minimum Scores:	CPT	NGA	ACT	SAT(March 2016)
English/Writing	71 +	250	18 +	25+
Reading	70 +	250	18 +	25+
Math	78 +	AR=270 or QRAS=250	19 +	25+

Student:			Test Score or Course	Academic Advisor Signature	Date
□ has met minimum English score or ⇒		sfully completed ENG with a 2.0/C or better	Source	Olynada	
□ has met minimum reading score or ⇒		sfully completed COLLS with a <u>2.0/C</u> or better			
□ has met minimum math score or ⇒		sfully completed MATH with a <u>2.0/C</u> or better			
Part C: BIOL 105 or eq				gy with a grade of 3.0/L	3 or better.
Student:				Academic Advisor Signature	Date
☐ has successfully cor (3.0/B or better) or =		atat	ompleted		
		with a grade of			
Part D: ELECT 131 Co.			ng Skills or equiva	lent (pending testing) v	with a grade
of 2.5 or better within 5 y			ng Skills or equiva	Academic Adviso	r
of 2.5 or better within 5 y	years of applicat	tion to the program.	ompleted	Academic Adviso Signature	
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of 2.5 or better within 5 y Student: has successfully continuous ELECT 131 (2.5/C of Semester Grade Part E: ELECT 137 Continuous EL	mpleted or better) or ⇒ mplete DC Circu	has successfully coat with a grade of has successfully pace. College electronic with & Mathematical Methods	ompleted assed Schoolcraft exam	Academic Adviso Signature	r Date
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Part B: PROFICIENCY Attain the minimum Assessment Scores listed above or successfully complete

appropriate developmental courses to improve your skills.

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of 2.5 or better within 5 years of application to the program. Academic Advisor Student: Date Signature ☐ has successfully completed ☐ has successfully completed ELECT 138 (2.5 or better) or \Rightarrow with a grade of Semester ☐ has successfully passed Schoolcraft Grade College electronic exam Part G: ELECT 139 Complete Diodes & Transistors or equivalent (pending testing) with a grade of 2.5 or better within 5 years of application to the program. Academic Advisor Student: Signature Date ☐ has successfully completed ☐ has successfully completed _____ ELECT 139 (2.5 or better) or \Rightarrow with a grade of _____ Semester____ ☐ has successfully passed Schoolcraft Grade College electronic exam Part H: ELECT 180 Lab VIEW Programming CORE 1 and 2 or equivalent (pending testing) with a grade of 2.5 or better within 5 years of application to the program. Academic Advisor Student: Date Signature ☐ has successfully completed ☐ has successfully completed _____ ELECT 180 (2.5 or better) or \Rightarrow with a grade of ____ Semester ☐ has successfully passed Schoolcraft Grade College electronic exam Part I: ELECT 215 Complete Operational Amplifiers & Linear Integrated Circuits or equivalent (pending testing) with a grade of 2.5 or better within 5 years of application to the program. Academic Advisor Student: Date Signature ☐ has successfully completed ☐ has successfully completed ELECT 215 (2.5 or better) or \Rightarrow with a grade of Semester ☐ has successfully passed Schoolcraft Grade College electronic exam

Part F: ELECT 138 Complete AC Circuits & Mathematical Modeling or equivalent (pending testing) with a grade

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grade of 2.5 or better within 5 years of application to the program. Academic Advisor Student: Date Signature ☐ has successfully completed ☐ has successfully completed _____ ELECT 219 (2.5 or better) or \Rightarrow with a grade of ___ Semester ☐ has successfully passed Schoolcraft Grade College electronic exam Part K: CUMULATIVE COLLEGE GPA Attain a 2.5 or better Schoolcraft College cumulative grade point average. Academic Advisor Student: Signature Date ☐ Student has a cumulative GPA of 2.5/C or better. ☐ Student not yet established a GPA at Schoolcraft College. Section III: Application to be signed by an Academic Advisor

Part J: ELECT 219 (formerly ELECT 226) Complete Digital Logic Circuits or equivalent (pending testing) with a

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	Academic Advisor Signature	Date

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