

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:

- Twenty-four (24) new students will be admitted each Fall semester.
- Biomedical Engineering Technology courses are offered primarily at the Livonia campus 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 International Certification Commission (ICC) for Clinical Engineering and Biomedical Technology.

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	Request official undergraduate college transcripts from <u>all</u> schools previously attended. College transcripts must be sent directly from the issuing college or university to Schoolcraft College.														
3. Verify Transcripts	Contact the Admissions and Enrollment Center at 734-462-4426 to confirm that all official undergraduate college transcripts have been received.														
4. Counseling and Assessment	This program requires minimum assessment levels or course work in the areas of math, reading and writing. Students should meet with an academic advisor or counselor to develop an academic plan to determine if an assessment test is necessary and if foundation courses are needed. Students with prior college level work or a degree may be exempt from placement testing. Students who have submitted ACT scores that are less than three years old to the Admissions and Enrollment Center may also be exempt from assessment testing. Contact the Counseling Center at 734-462-4429 to make an appointment.														
5. College Prerequisite Coursework	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Complete BIOL 105</td> <td>Basic Human Anatomy & Physiology with a grade of <u>3.0</u> or better.</td> </tr> <tr> <td>Complete ELECT 131</td> <td>Basic Measurement & Reporting Skills with a grade of <u>2.5</u> or better.</td> </tr> <tr> <td>Complete ELECT 137</td> <td>DC Circuits & Mathematical Modeling with a grade of <u>2.5</u> or better.</td> </tr> <tr> <td>Complete ELECT 138</td> <td>AC Circuits & Mathematical Modeling with a grade of <u>2.5</u> or better.</td> </tr> <tr> <td>Complete ELECT 139</td> <td><i>Diodes & Transistors</i> with a grade of <u>2.5</u> or better.</td> </tr> <tr> <td>Complete ELECT 215</td> <td>Operational Amplifiers & Linear Integrated Circuits with a grade of <u>2.5</u> or better.</td> </tr> <tr> <td>Complete ELECT 219</td> <td><i>Digital Logic Circuits</i> with a grade of <u>2.5</u> or better.</td> </tr> </table> <p>Time Limits: All Electronic transfer courses and Schoolcraft College Electronic courses completed over 5 years prior to program application require testing for credit.</p>	Complete BIOL 105	Basic Human Anatomy & Physiology with a grade of <u>3.0</u> or better.	Complete ELECT 131	Basic Measurement & Reporting Skills with a grade of <u>2.5</u> or better.	Complete ELECT 137	DC Circuits & Mathematical Modeling with a grade of <u>2.5</u> or better.	Complete ELECT 138	AC Circuits & Mathematical Modeling with a grade of <u>2.5</u> or better.	Complete ELECT 139	<i>Diodes & Transistors</i> with a grade of <u>2.5</u> or better.	Complete ELECT 215	Operational Amplifiers & Linear Integrated Circuits with a grade of <u>2.5</u> or better.	Complete ELECT 219	<i>Digital Logic Circuits</i> with a grade of <u>2.5</u> or better.
Complete BIOL 105	Basic Human Anatomy & Physiology with a grade of <u>3.0</u> or better.														
Complete ELECT 131	Basic Measurement & Reporting Skills with a grade of <u>2.5</u> or better.														
Complete ELECT 137	DC Circuits & Mathematical Modeling with a grade of <u>2.5</u> or better.														
Complete ELECT 138	AC Circuits & Mathematical Modeling with a grade of <u>2.5</u> or better.														
Complete ELECT 139	<i>Diodes & Transistors</i> with a grade of <u>2.5</u> or better.														
Complete ELECT 215	Operational Amplifiers & Linear Integrated Circuits with a grade of <u>2.5</u> or better.														
Complete ELECT 219	<i>Digital Logic Circuits</i> with a grade of <u>2.5</u> or better.														
6. Cumulative GPA	Attain a cumulative grade point average at Schoolcraft College of <u>2.5</u> or better.														
7. Apply to Biomedical Engineering Technology Program	Submit the attached Biomedical Engineering Technology Application to the Admissions and Enrollment Center with appropriate signatures.														

APPLICATION PROCESS

1. The order of acceptance of qualified applicants is based on the date the College receives a valid Biomedical Engineering Technology Program application. Applications are received and processed on an on-going basis.
For the purpose of fairness, applications received at the end of each semester will be held for three business days after final grades are available and then will be dated received.
2. In the event that more than one qualified student applies on the same day, the order of acceptance will be based on the student's cumulative grade point average at Schoolcraft College and then by residency if needed.
3. When the maximum number of qualified applicants has been accepted, students will be considered for acceptance into the next available semester.
4. Applications received from non-qualified students are returned and may be resubmitted after the application requirements are complete.

OPEN/SUPPORTING COURSES

Admission to the Biomedical Engineering Technology Program is not 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).

ELECT 180	<i>LabVIEW Programming CORE 1 and 2</i>
ENG 101	<i>English Composition 1</i>
ENG 102 or 116	<i>English Composition 2 or Technical Writing</i>
HUM 106	<i>Introduction to Art and Music</i>
MATH 101 or 113	<i>Business Mathematics or Intermediate Algebra for College Students</i>
Social Sciences	<i>See Catalog for Social Sciences Options</i>
2 Electives	<i>See BMET Program Elective Options in Catalog</i>

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.

ESTIMATION OF TUITION AND FEES

ESTIMATE OF TUITION AND FEES – BIOMEDICAL ENGINEERING TECHNOLOGY PROGRAM		
(Based on 68 Credits)		
	<u>Resident</u>	<u>Non-Resident</u>
Tuition:	\$5,916.00	\$8,636.00
Service Fee:	\$340.00	\$340.00
Registration Fees:	\$240.00	\$240.00
Instructional/Equipment Fees:	\$272.00	\$272.00
Course Fees:	\$1,100.00	\$1,100.00
TOTAL:	\$7,868.00*	\$10,588.00*

***Estimation of tuition and fees does not include the cost of textbooks**
The above figures are based on 2012-2013 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. Tuition and fees for out-of-state and international students are available at www.schoolcraft.edu/admissions.

NOTE

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

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

Phone: 734-462-4426

Fax: 734-462-4553

E-mail: admissions@schoolcraft.edu

Web: www.schoolcraft.edu

This application is required for the Biomedical Engineering Technology Program. You may submit this application to the Admissions and Enrollment Center after you complete the following:

- 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/counselor to review your progress toward meeting program requirements and to obtain appropriate signatures.
- 5) Completion of all sections of this application with signatures from an academic advisor or counselor is required to be accepted into the Biomedical Engineering Technology program. Return application to the Admissions and Enrollment Center. Applications are accepted on a continuous basis.

Section I: To be completed by student

Demographic information on this application must match the information on record in the Registrar's Office at Schoolcraft College.

Name

Last (Family Name) First Middle Former (If Applicable)

Address

Number Street Apt. City State Zip + 4 Digit Code

Day Phone

() _____

Evening Phone

() _____

Email

Birth Date

Month / Day

Student Number

Social Security Number

Last 4 Digits

It is the policy of Schoolcraft College that no person shall, on the basis of race, color, national origin, gender, age, marital status, creed, or handicap, be excluded from participating in, be denied the benefits of, or be subjected to discrimination during any program or activity or in employment.

Section II: To be completed with academic advisor/counselor

THE ITEMS IN SECTION II ARE REQUIRED. MEET WITH AN ACADEMIC ADVISOR OR COUNSELOR TO OBTAIN APPROPRIATE SIGNATURES BEFORE APPLYING TO THE PROGRAM.

Part A: OFFICIAL TRANSCRIPTS *Transcripts document coursework and appropriate assessment.*

Schoolcraft College:

- has received all official undergraduate college transcripts
 no previous college transcripts needed

Counselor or Academic
Advisor Signature

Date

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Part B: ASSESSMENT TESTING *Take an assessment test unless you are exempt (approved by an academic advisor or counselor). Assessment Test scores are valid for up to three years.*

Student:

- has taken assessment test or ⇒ is exempt

Counselor or Academic
Advisor Signature

Date

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Part C: PROFICIENCY Attain the minimum Assessment Scores listed below or successfully complete appropriate developmental courses to improve your skills. Assessment Test Scores and/or ACT Scores are valid for up to three years.

Minimum Scores:	ACT	Accuplacer/CPT
Sentence Skills	18+	71 +
Reading Comprehension	18+	70 +
Arithmetic/Elementary Algebra	19+	75/78 +

Student:

has met minimum English score or ⇒

has met minimum reading score or ⇒

has met minimum math score or ⇒

has successfully completed ENG 055 with a 2.0/C or better

has successfully completed COLLS 053 with a 2.0/C or better

has successfully completed MATH 053 with a 2.0/C or better

Test Score or Course	Counselor or Academic Advisor Signature	Date

Part D: BIOL 105 or equivalent. Complete Basic Human Anatomy & Physiology with a grade of 3.0/B or better. You may complete an equivalent college course to satisfy this requirement.

Student:

has successfully completed BIOL 105 (3.0/B or better) or ⇒ has successfully completed _____ at _____ with a grade of _____

Counselor or Academic Advisor Signature	Date

Part E: ELECT 131 (formerly ELECT 119) Complete Basic Measurement & Reporting Skills or equivalent (pending testing) with a grade of 2.5 or better within 5 years of application to the program.

Student:

has successfully completed ELECT 131 (2.5/C or better) or ⇒ Semester _____ Grade _____ has successfully completed _____ at _____ with a grade of _____ has successfully passed Schoolcraft College electronic exam

Counselor or Academic Advisor Signature	Date

Part F: ELECT 137 (formerly ELECT 127) Complete DC Circuits & Mathematical Modeling or equivalent (pending testing) with a grade of 2.5 or better within 5 years of application to the program.

Student:

has successfully completed ELECT 137 (2.5 or better) or ⇒ Semester _____ Grade _____ has successfully completed _____ at _____ with a grade of _____ has successfully passed Schoolcraft College electronic exam

Counselor or Academic Advisor Signature	Date

Part G: ELECT 138 (formerly ELECT 128) Complete AC Circuits & Mathematical Modeling or equivalent (pending testing) with a grade of 2.5 or better within 5 years of application to the program.

Student: <input type="checkbox"/> has successfully completed ELECT 138 (2.5 or better) or ⇒ Semester _____ Grade _____	<input type="checkbox"/> has successfully completed _____ at _____ with a grade of _____ <input type="checkbox"/> has successfully passed Schoolcraft College electronic exam	Counselor or Academic Advisor Signature Date

Part H: ELECT 139 (formerly ELECT 129) Complete Diodes & Transistors or equivalent (pending testing) with a grade of 2.5 or better within 5 years of application to the program.

Student: <input type="checkbox"/> has successfully completed ELECT 139 (2.5 or better) or ⇒ Semester _____ Grade _____	<input type="checkbox"/> has successfully completed _____ at _____ with a grade of _____ <input type="checkbox"/> has successfully passed Schoolcraft College electronic exam	Counselor or Academic Advisor Signature Date

Part I: ELECT 215 (formerly ELECT 206) 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.

Student: <input type="checkbox"/> has successfully completed ELECT 215 (2.5 or better) or ⇒ Semester _____ Grade _____	<input type="checkbox"/> has successfully completed _____ at _____ with a grade of _____ <input type="checkbox"/> has successfully passed Schoolcraft College electronic exam	Counselor or Academic Advisor Signature Date

Part J: ELECT 219 (formerly ELECT 226) Complete Digital Logic Circuits or equivalent (pending testing) with a grade of 2.5 or better within 5 years of application to the program.

Student: <input type="checkbox"/> has successfully completed ELECT 219 (2.5 or better) or ⇒ Semester _____ Grade _____	<input type="checkbox"/> has successfully completed _____ at _____ with a grade of _____ <input type="checkbox"/> has successfully passed Schoolcraft College electronic exam	Counselor or Academic Advisor Signature Date

Part K: CUMULATIVE COLLEGE GPA Attain a 2.5 or better Schoolcraft College cumulative grade point average.

Student: <input type="checkbox"/> Student has a cumulative GPA of 2.0/C or better. <input type="checkbox"/> Student not yet established a GPA at Schoolcraft College.	Counselor or Academic Advisor Signature Date

Section III: Application to be signed by student

X

Applicant Signature

Date

RETURN TO:

Admissions and Enrollment Center
McDowell Center
Schoolcraft College
18600 Haggerty Road
Livonia, MI 48152-2696

Phone: 734-462-4426
Fax: 734-462-4553

DATE RECEIVED: