



Effective 2015/2016

Career Cluster ►



Career Pathway ►

Engineering & Technology

**ELECTRICAL ENGINEERING TECHNOLOGY**  
 (10-662-1B) – Biomedical Engineering  
 Associate of Applied Science Degree  
 Most Courses Offered at iMET Center

<sup>Δ</sup> Suggested Sequence	Course Number	Course Title	Requisites	Credits	Hrs/Wk Lec - Lab
Semester 1	605-113 *	DC/AC I		3	2-2
	605-130 *	Digital Electronics		4	3-2
	801-136	English Composition 1	Prereq: 831-103 (See Note 1)	3	3-0
	804-115	College Technical Math 1	Prereq: 834-110 (See Note 1)	5	5-0
	809-198	Psychology, Introduction to	Prereq: 838-105 (See Note 1 & 4)	3	3-0
Semester 2	605-114 *	DC/AC II	Prereq: 605-113	3	2-2
	605-120 *	Electronic Devices I	Prereq: 605-113	4	2-4
	662-102 *	Medical Devices Function & Use I		3	2-2
	801-197	Technical Reporting	Prereq: 801-136	3	3-0
	804-197	College Algebra & Trig w/ Apps	Prereq: 804-115	5	5-0
Semester 3	605-121 *	Electronic Devices II	Prereq: 605-120	4	2-4
	605-190 *	Microprocessors	Coreq: 605-114; 605-121	4	2-4
	662-112 *	DC/AC III	Prereq: 605-114	3	2-2
	804-198 *	Calculus 1	Prereq: 804-197	4	4-0
	806-143 *	College Physics 1	Prereq: 804-113 or 804-115	3	2-2
Semester 4	662-124 *	Electronic Circuit Analysis	Prereq: 605-120	3	2-2
	662-103 *	Medical Devices Function & Use II		3	2-2
	662-101 *	Safety in Healthcare		1	1-0
	809-196	Sociology, Introduction to	Prereq: 838-105 (See Note 1 & 4)	3	3-0
Electives	Take 6 elective credits. Any associate degree level course may be taken as an elective.			6	
	<b>Suggested Electives:</b> 605-150 Industrial Electronics (3 Cr) 605-133 Industrial Data Communications (3 Cr) 804-181 Calculus 2 (4 Cr)				
<b>Minimum Program Total Credits Required</b>				<b>70</b>	

<sup>Δ</sup>Courses may be taken out of suggested sequence as long as requisites have been met.



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**PROGRAM DESCRIPTION**

*Electrical Engineering Technology* focuses on the installation, maintenance, modification, diagnosis, and troubleshooting of a wide variety of electronic equipment. In addition to comprehensive training in electronic theory, lab experience is an integral part of the program. The study areas include AC/DC principles, transistor operation, digital circuits, microprocessors, optoelectronics, communications, and industrial electronics.

**PROGRAM LEARNING OUTCOMES**

**Graduates of the Electrical Engineering Tech. Associate Degree Program should be able to:**

1. Apply electronic theory to practice.
2. Operate test equipment.
3. Build electronic circuits and systems.
4. Evaluate the operation of electronic circuits or systems.
5. Communicate technical information.

**CORE ABILITIES**

Gateway believes students need both technical knowledge and skills and core abilities in order to succeed in a career and in life. The following nine core abilities are the general attitudes and skills promoted and assessed by all Gateway programs. All Gateway graduates should be able to:

- |  |   |
|--|---|
| 1. Act responsibly                           | 5. Develop job seeking skills                                       |
| 2. Communicate clearly and effectively       | 6. Respect themselves and others as a member of a diverse community |
| 3. Demonstrate essential computer skills     | 7. Think critically and creatively                                  |
| 4. Demonstrate essential mathematical skills | 8. Work cooperatively   |
|  | 9. Value learning   |

**ADMISSION REQUIREMENTS**

1. Students must submit an application & \$30 fee.
2. Students must complete reading, writing, math, and computer skills placement assessments.
3. Students must submit official high school, GED, or HSED transcript.

**GRADUATION REQUIREMENTS**

1. Minimum 70 credits with an average of 2.0 or above.
2. \*Average of 2.0 ("C") or above for these major courses.

*For a complete list of Graduation Requirements check the Student Handbook.*

**NOTES**

1. A satisfactory placement test score (or successful remediation) is required prior to enrollment. See an advisor for details.
2. Safety glasses are required in labs. If prescription safety glasses are necessary, please allow a minimum of 90 days.
3. Any course may be taken prior to entry in the program, assuming prerequisites and corequisites have been satisfied (or waived with department approval).
4. Transfer credits in Social Science may substitute for this course. See an advisor for details.

**OTHER INFORMATION**

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for a period of two years or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult Web Advisor for exact fee amounts. Occasionally, the District may offer a particular course out of published sequence. By doing so, the District does not obligate itself to offer succeeding courses out of published sequence.

**EQUAL OPPORTUNITY EMPLOYER AND EDUCATOR  
EMPLEADOR Y EDUCADOR QUE OFRECE IGUALDAD DE OPORTUNIDADES**

To schedule an appointment with an advisor, please call 1-800-247-7122.

For a complete list of course descriptions (and possible online courses) for this program, please consult Web Advisor on our web page at [www.gtc.edu](http://www.gtc.edu).

My advisor is \_\_\_\_\_ My advisor's contact information is \_\_\_\_\_.