



**Part-Time Pathway to Success**

School of Manufacturing, Engineering, and Information Technology

**Electrical Engineering Technology (10-662-1)**

Associate of Applied Science

**Effective 2021/2022**

The course sequence shown on this sheet is the recommended path to completion. Courses will be scheduled in the terms indicated here. All courses should be taken in the order shown to help you stay on track and graduate according to your academic plan.

I-D = iMET Center/days, I-E = iMET Center/evenings, F=Fall, S=Spring, SU=Summer

Term	Course #	Cr.	Course Title	Requisites (prereq- before/ coreq-with)	I-D	I-E
1	890-155	1	📍 Gateway to Success (G2S)		F+	F+
1	*605-113	3	🎓 DC/AC I <sup>4</sup>		F	F
1	804-115	5	College Technical Math 1 <sup>1,4</sup>	Prereq: 834-110	F+	F+
2	*605-130	4	Digital Electronics <sup>4</sup>		S	S
2	804-197	5	College Algebra & Trig w Apps <sup>4</sup>	Prereq: 804-115 or 804-114	S+	S+
3	*605-114	3	DC/AC II <sup>4</sup>	Prereq: 605-113; Coreq: 804-115	SU	SU
3	809-196	3	Sociology, Introduction to <sup>1,3,4</sup>	Prereq: 838-105 OR 831-107	SU+	SU+
4	*605-120	4	Electronic Devices I <sup>4</sup>	Prereq: 605-113	F	F
4	801-136	3	English Composition 1 <sup>1,4</sup>	Prereq: 831-103 OR 831-107	F+	F+
4	*804-198	4	Calculus 1 <sup>4</sup>	Prereq: 804-197	F+	F+
5	*605-121	4	Electronic Devices II	Prereq: 605-120	S	S
5	801-197	3	Technical Reporting	Prereq: 801-136	S+	S+
5	*804-181	4	Calculus 2	Prereq: 804-198	S+	S+
6	*605-150	3	Industrial Electronics	Prereq: 605-114; 605-120	SU	SU
6	*806-154	4	General Physics 1	Prereq: 804-114 OR 804-115	SU+	SU+
6	809-198	3	Psychology, Introduction to <sup>1,3,4</sup>	Prereq: 838-105 OR 831-107	SU+	SU+
7	*605-190	4	Microprocessors <sup>4</sup>	Coreq: 605-114; 605-121; 801-197	F	F
7	*662-112	3	DC/AC III	Prereq: 605-114	F	F
8	*605-133	3	Industrial Data Communications	Prereq: 605-113 OR 605-107	S	S
8	*662-124	3	Electronic Circuit Analysis	Prereq: 605-120	S	S

**Minimum Program Total Credits Required: 69**

<b>AVAILABLE CONCENTRATION: BIOMEDICAL ENGINEERING TECHNOLOGY</b>			
Instead of these courses	Take these alternates	Cr.	I-E
605-150 Industrial Electronics	*662-102 Medical Devices Func. & Use I	3	S
804-181 Calculus 2	*662-103 Medical Devices Func. & Use II	3	S
	& *662-101 Safety in Healthcare	1	S

Notes associated with courses (identified by a superscript number at the end of the course title) are located on the back of the sheet.

📍 Mastery of this course will put students on a path to achieve successful degree completion, on-time graduation, and enrich the college experience. Students are required to take this course in their first semester of enrollment. Please see an advisor for details.

🎓 = Milestone Course. Faculty have identified this course as providing a strong foundation for success throughout the program.

(\*) indicates students must achieve a combined average of 2.0 ("C") or above for these major courses to meet graduation requirements.

(+) indicates students may take these courses at any one of the three main campuses; Kenosha, Racine, or Elkhorn.

## Electrical Engineering Technology (10-662-1)

*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 will 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.

### Essential Career Competencies

Gateway's six essential career competencies are the general attitudes and skills promoted and assessed by all programs. All Gateway graduates will develop skills in:

- Communication
- Professionalism and Career Management
- Cultural Competence
- Critical Thinking and Problem Solving
- Teamwork and Collaboration
- Technology Competence

### Admission Requirements

1. Students must submit an application and pay \$30 fee.
2. Students must meet one of the following: minimum cumulative high school GPA of 2.6 (unweighted); earned at least 12 college credits with a minimum GPA of 2.0; or complete valid reading, writing, and math placement assessments.

### Graduation Requirements

1. Minimum 69 credits with an average of 2.0 or above.
2. \*Average of 2.0 ("C") or above for these major courses.
3. Complete 890-155 Gateway to Success (G2S) in the first semester.

For a complete list of Graduation Requirements, check the Student Handbook or [Graduation Requirements](#).

### 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 before the program start to obtain prescription and glasses.
3. Transfer credits in Social Science may substitute for this course. See an advisor for details.
4. A credit for prior learning assessment is available for this course. For more information, please contact [cfpl@gtc.edu](mailto:cfpl@gtc.edu).

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 My Gateway 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.