



Effective 2009/2010

Career Cluster ►



Career Pathway ►

Engineering & Technology

**ELECTRICAL ENGINEERING
TECHNOLOGY**

(10-662-1A)

Associate of Applied Science Degree

Offered at: Racine Campus

| ^Δ 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 | Coreq: 605-113 | 4 | 3-2 |
| | 801-136 | English Composition 1 | Prereq: 831-103 (See Note 1) | 3 | 3-0 |
| | 804-113 | College Technical Math 1A | Prereq: 854-769 (See Note 1) | 3 | 3-0 |
| | 804-114 | College Technical Math 1B | Coreq: 804-113 | 2 | 2-0 |
| | 809-198 | Psychology, Introduction to | Prereq: 838-105 (See Note 1) | 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 |
| | 801-197 | Technical Reporting | Prereq: 801-136 | 3 | 3-0 |
| | 804-197 | College Algebra & Trig w Apps | Prereq: 804-114 | 5 | 5-0 |
| | 809-195 | Economics | Prereq: 838-105 (See Note 1) | 3 | 3-0 |
| 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 | 3 | 3-0 |
| Semester 4 | 662-124 | *Electronic Circuit Analysis | Prereq: 605-120 | 3 | 2-2 |
| | 804-181 | *Calculus 2 | Prereq: 804-198 | 4 | 4-0 |
| | 809-196 | Sociology, Introduction to | Prereq: 838-105 (See Note 1) | 3 | 3-0 |
| Electives | Take 6 elective credits. Any associate degree level course may be taken as an elective. | | | 6 | |
| | Suggested Electives: 605-150 *Industrial Electronics (3 Cr) 605-151 *Electronic Communication (3 Cr) | | | | |
| Program Total Required | | | | 70 | |

^Δ 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. Demonstrate the proper use of appropriate electronic test equipment.
2. Signal trace a circuit utilizing only a schematic as a reference.
3. Demonstrate proper solder/desoldering techniques.
4. Write technical lab reports.
5. Communicate effectively, in both a formal presentation and in general conversation.
6. Construct, test, and evaluate electronic circuits.

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

ADMISSION REQUIREMENTS

1. Students must submit an application & \$30 fee.
2. Students must complete reading, writing, pre-algebra and algebra placement testing.

GRADUATION REQUIREMENTS

1. 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 counselor 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).

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 the Master Class Schedule 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/ACCESS EDUCATOR / EMPLOYER
IGUALDAD DE OPORTUNIDADES**

You may call Student Services at (262) 767-5300 (Burlington), (262) 741-8300 (Elkhorn), (262) 564-2300 (Kenosha), or (262) 619-6300 (Racine) for additional information. 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.

My counselor is _____ My counselor's contact information is _____.