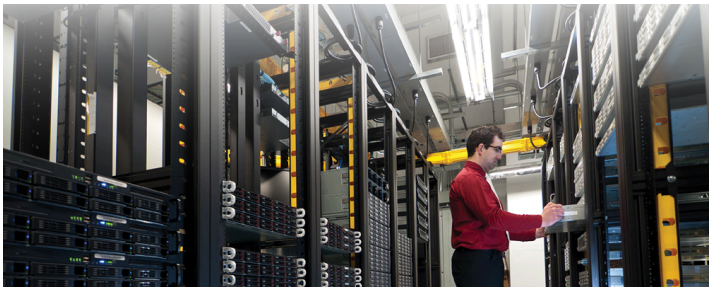
# ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY WITH A CONCENTRATION IN DIGITAL COMMUNICATIONS



Graduates of the Digital Communications concentration in the Electronic Engineering Technology program can work as technical specialists in the broad and diverse field of communications, in such areas as installation, operation and maintenance of (principally) digital and analog communications systems. The program emphasizes both theory and application and consists of course work and lab work in basic electronic circuits, digital and microprocessor systems, networking, analog and digital communications circuits and system and communications media (fiber optics, broadband cable, twisted pair and microwave systems).

***No new students will be accepted in the program after Aug. 22, 2025, for Academic Year 2025-2026. Current students should reach out to an academic counselor to create an academic plan to complete their remaining Electrical/Electronic Engineering Technology with a concentration in Digital Communications courses.*** **Students will have until Fall 2025 to complete this degree program.**

## Related Degrees and Certificates

- Electrical/Electronic Engineering Technology, Associate of Applied Science
- Electronic Engineering Technician, Certificate of Proficiency

## Program Admission Requirements

- High School Diploma/GED
- ENG-0995 Applied College Literacies or appropriate score on English Placement Test.
- MATH-0965 Intermediate Algebra or appropriate score on Math Placement Test.
- Receive a "B" grade or higher in EET-1161 Direct Current Circuits.

## Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

1. Demonstrate effective oral and written communications using appropriate technology and terminology to various audiences.
2. Work independently and as an effective member of a team to complete projects.
3. Explain professional, ethical and social responsibilities and the need for lifelong learning in the engineering profession.
4. Apply current knowledge of math, science, engineering, fiber, radio frequency and networking technology to build/modify troubleshoot, install, operate and maintain equipment using schematic and/or mechanical drawings, instrumentation, productivity tools, safety and other appropriate standards.
5. Sit for certification(s).

## Suggested Semester Sequence

| First Semester | | Credit Hours |
|---|---|---|
| EET-1161 | Direct Current Circuits | 3 |
| EET-1180 | Surface Mount Soldering | 1 |
| EET-1190 | Printed Circuit Layout | 2 |
| MET-1100 | Technology Orientation | 2 |
| Select one of the following: | | 3 |
| ENG-1010 | College Composition I | |
| ENG-101H | Honors College Composition I | |
| Select one of the following: | | 3 |
| PHIL-2020 | Ethics | |
| PHIL-202H | Honors Ethics | |
| | **Credit Hours** | **14** |
| **Second Semester** | | |
| EET-1210 | AC Electric Circuits | 3 |
| EET-1241 | Digital Fundamentals | 3 |
| PHYS-1210 | College Physics I | 4 |
| Select one of the following: | | 4 |
| MATH-1530 | College Algebra [1] | |
| MATH-153H | Honors College Algebra [1] | |
| Select one of the following: | | 3 |
| ENG-1020 | College Composition II | |
| ENG-102H | Honors College Composition II | |
| ENG-2151 | Technical Writing | |
| | **Credit Hours** | **17** |
| **Third Semester** | | |
| EET-2120 | Electronics I | 3 |
| EET-2131 | Digital Communication Fundamentals | 3 |
| EET-2170 | Signal Analysis | 3 |
| EET-2242 | C and ASM Programming with Embedded Applications | 3 |
| ITNT-2300 | Networking Fundamentals | 3 |
| Select one of the following: | | 3 |
| MATH-1540 | Trigonometry [1] | |
| MATH-154H | Honors Trigonometry [1] | |
| | **Credit Hours** | **18** |
| **Fourth Semester** | | |
| EET-2220 | Electronics II | 3 |
| EET-2231 | Wired and Wireless Communication | 3 |
| EET-2591 | Communications Design Project | 2 |
| ITNT-2310 | | 3 |
| PHYS-1220 | College Physics II | 4 |
| | **Credit Hours** | **15** |
| | **Total Credit Hours** | **64** |

[1] MATH-1580 Precalculus or MATH-1610 Calculus I will be accepted in place of both MATH-1530 College Algebra and MATH-1540 Trigonometry, but an additional 2 credit hours of general electives may be needed to meet degree requirements.