

Electrical/Electronics Engineering Technology • Bachelor of Science

Why Choose Electrical/Electronics Engineering Technology?

Electronics, automation, and computers are the lifeblood of today's high tech societies. The Bachelor of Science in Electrical/Electronics Engineering Technology (BS EET) program graduates professionals that develop, design, apply, manage and direct the future of these technologies.

Graduates are prepared for careers in Industrial Automation and Controls, Digital and Embedded Systems Design, Instrumentation, Programming, or Control Networks. Our graduates often obtain positions with titles such as Control System Integrator, Product Designer, Embedded Systems Developer, Control and Network Specialist, Technical Sales Specialist, Electrical/Electronics Product Specialist, etc.

The BS in Electrical/Electronics Engineering Technology is accredited by the Technology Commission of the Accreditation Board of Engineering and Technology (TAC-ABET), 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; Phone 410-374-7700.

Prepare for a Great Career

The BS EET program is known for quality and responsiveness to industry. In addition to a solid foundation in electronic concepts, students learn the most current and relevant topics for today's advanced technologies. Real world theory and applications are emphasized throughout the program and theory is balanced with extensive hands-on experience. Program courses include topics in digital/microprocessors, control automation, industrial networking and motion control. Recognizing the diverse career paths our graduates may enter, course selection can be customized by each student. Opportunities are also provided to gain valuable experience through summer internships, senior design projects and professional organizations.

Students who have successfully completed an Associates degree in Industrial Electronics Technology from Ferris or an equivalent from another institution can usually complete the Bachelor of Science degree in Electrical/Electronics Engineering Technology in just two years.

The Bachelor of Science in Electronics Engineering Technology boasts a history of excellent placement, high starting salaries, and graduates enjoying very successful careers. The program has strong support from several corporations influential in these fields and is accredited through TAC-ABET.

Admission Requirements

Students entering the program must have completed an associate degree (or equivalent) in a related program and have transferable courses in mathematics through pre-calculus with a minimum 2.0 GPA in the associate degree work.

If you don't meet these requirements when you apply, you may be accepted as a 'non-major'. Upon completion of all prerequisites, admission to the program will be approved. Admission counselors should be consulted for an evaluation of transferability.

Graduation Requirements

The Electrical/Electronics Engineering Technology program at Ferris leads to a bachelor of science degree. Graduation requires a minimum 2.0 GPA in core classes, in the major and overall. Students must complete all general education requirements as outlined in the General Education section of the University Catalog.

Required Courses

| | Credit Hours |
|--|--------------|
| General Education | |
| COMM 121 Fundamentals-Public Speaking | 3 |
| ENGL 311 Advanced Technical Writing | 3 |
| MATH 216 Applied Calculus | 4 |
| MATH 226 Fourier Series-Appl Diff Equat | 4 |
| Electives: CHEM or PHYS | 4 |
| (2) Cultural Enrichment Courses | 6 |
| (2) Social Awareness Courses | 6 |
| Major | |
| ECNS 311 High Level Programming | 2 |
| EEET 321 Network Analysis | 3 |
| EEET 393 Internship | 4 |
| EEET 418 Project Management | 2 |
| EEET 428 Senior Project | 2 |
| Concentration Courses (choose 16 credits) | |
| EEET 313 Electric Power and Machine | 4 |
| EEET 323 Industrial Automation Controls | 4 |
| EEET 411 Advanced Communications 1 | 4 |
| EEET 412 Advanced Digital Systems | 4 |
| EEET 414 Ind Process Communications | 4 |
| EEET 421 Advanced Communications 2 | 4 |
| EEET 422 Advanced Digital Design | 4 |
| EEET 424 Industrial Motion Control | 4 |
| CAD Courses (choose 3 credits) | |
| ETEC 140 Engr Graphics Comprehensive | 3 |
| Technical Science Electives (choose 4-6 credits) | |
| MECH 211 Fluid Mechanics | 4 |
| MECH 223 Thermodynamics | 3 |
| MECH 250 Fluid Power With Controls | 2 |
| MECH 340 Statics-Strength of Materials | 4 |
| MFGE 341 Quality Science Statistics | 3 |
| MFGE 342 Statistical Proc Engineering | 3 |
| MFGE 353 Statistical Quality Control | 3 |
| Directed Elective (choose 2-3 credits) | 2 |
| MFGE 423 Engineering Economics | 2 |
| Minimum credit hours required for BS degree (after completion of an AAS degree): | 68 |



More Information

EET & CNS Department
Ferris State University
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FERRIS STATE UNIVERSITY

COLLEGE OF ENGINEERING TECHNOLOGY