

ENGINEERING TECHNOLOGY - ELECTRONICS



ABOUT THIS DEGREE PROGRAM

TECH CORE A FOUNDATION IN TECHNOLOGY

This program is anchored with Tech Core, curriculum designed to help you build a foundation of interdisciplinary skills you'll need for today's Internet of Things (IoT) economy. You'll learn relevant skills in operating systems, programming, hardware, connectivity and security – giving you a hands-on foundation in engineering technology, information technology and software and information systems.

A PROGRAM TO FUEL YOUR FUTURE

Learn about networked and digital systems, acquire hands-on experience in testing and measuring electronic devices, and study automation technology relevant to industrial process, transportation and power grids. After completing program coursework, you can decide to specialize in Renewable Energy or complete the Standard Option.¹

IS THIS PROGRAM FOR YOU?

Interested in how things work? How to build automated solutions? Then this program may be a good fit for you.

CAREER OPPORTUNITIES

Graduates of DeVry's Engineering Technology – Electronics degree program may consider, but are not limited to, the following careers:

- Computer Systems Analyst Technologists
- Electrical Engineering Technician Engineering Technician
- Test Engineers and Technician Field Service Technician
- Manufacturing Technician

WHAT YOU'LL LEARN

ESSENTIALS

- Communicate methods and findings
- Collaborate in dynamic work environments
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies

TECH CORE

- Produce, secure, operate and troubleshoot small enterprise networks
- Network, secure and deploy digital devices and sensors into the IoT ecosystem
- Solve technical problems using an algorithmic approach and basic programming and coding methods
- Install and configure operating systems using command-line interface (CLI)

PROGRAM

- Install and upgrade networked, computer-controlled systems
- Test and measure electronic systems
- Troubleshoot automation and control systems
- Work with programmable logic controller as they applied to commercial, motor and industrial control

QUICK FACTS

139
CREDIT HOURS
minimum credit hours
required for graduation

3
YEARS
minimum length to graduation²



THE SMART WAY TO BE UNDECIDED

With our undecided model, you can gain exposure to a variety of concepts early in your program and be better armed to choose your path.¹



ACCREDITATION MATTERS

ETAC of ABET promotes technical education excellence by offering programmatic accreditation to Institutions that meet their quality standards. This is a global mark of quality that is valued by employers and professional associations within the Engineering Technology field.

The Engineering Technology – Electronics degree program is accredited by The Engineering Technology Accreditation Commission of ABET (ETAC of ABET) www.abet.org.



PORTABLE IoT KIT

You can simulate the Internet of Things (IoT) experience wherever you are. With our portable IoT Kit, you'll get hands-on experience in how IoT technologies work in the real world. Your kit will include digital devices, sensors and other tools you will use to build relevant IoT systems.

¹Must declare a specialization by 30 credit hours for associate degree program and 60 credit hours for bachelor's degree program.

²Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at <https://www.devry.edu/degree-programs.html>.

Engineering Technology – Electronics

ESSENTIALS

59
CREDIT HOURS

COMMUNICATION SKILLS

ENGL112	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing
SPCH275	Public Speaking

HUMANITIES

ETHC232	Ethical and Legal Issues in the Professions
LAS432	Technology, Society, and Culture

SOCIAL SCIENCES

ECON312	Principles of Economics
SOCS185	Culture and Society
SOCS325	Environmental Sociology

MATHEMATICS AND NATURAL SCIENCES

ECET345	Signals and Systems with Lab
MATH114	Algebra for College Students
MATH190	Pre-Calculus
MATH221	Statistics for Decision-Making
MATH265	Applied Calculus
PHYS204	Applied Physics with Lab

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405	Career Development
COLL148	Critical Thinking and Problem-Solving

TECH CORE

21
CREDIT HOURS

TECH CORE

CEIS101	Introduction to Technology and Information Systems
CEIS106	Introduction to Operating Systems
CEIS110	Introduction to Programming
CEIS114	Introduction to Digital Devices
NETW190	Fundamentals of Information Technology and Networking I
NETW200	Fundamentals of Information Technology and Networking II
SEC285	Fundamentals of Information Security

PROGRAM

30
CREDIT HOURS

AUTOMATION AND ELECTRONIC SYSTEMS

ECT222	Circuit Analysis Fundamentals
ECT225	Electronic Devices and Systems
ECT284	Automation and Control Systems with Lab

INFORMATION SYSTEMS AND PROGRAMMING

CIS170C	Programming with Lab
CIS247C	Object-Oriented Programming with Lab

APPLICATION DEVELOPMENT

CIS355A	Business Application Programming with Lab
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SENIOR PROJECT

CEIS392	Product, Project and People Management
CEIS494	Senior Project I
CEIS496	Senior Project II

TECHNOLOGY CAREER PREPARATION

CEIS299	Careers and Technology
CEIS499	Preparation for the Profession

SPECIALIZED

30
CREDIT HOURS

Students who have not chosen an area of specialization may begin the program in “Undecided” status; however, they must select a specialization by the time they have earned 60 semester credit hours toward their degree.

Available specializations are:

- Renewable Energy
- Standard option