

# ENGINEERING TECHNOLOGY – COMPUTERS



## ABOUT THIS DEGREE PROGRAM

### A PROGRAM TO FUEL YOUR FUTURE

Learn the foundations of programming, networking and digital systems and apply these skills to create and troubleshoot computer-based systems and applications. Through this program you can develop an understanding in specialized areas such as control systems, communications and advanced computing.

### IS THIS PROGRAM FOR YOU?

If you are interested in the development of computer applications, from design to implementation, then this program is for you.

## CAREER OPPORTUNITIES

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

- Computer Support Specialist
- Computer Systems Analyst
- Electrical Engineering Technician
- Electronics Technician
- Electronics Engineering Technician

## WHAT YOU'LL LEARN

### ESSENTIALS

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

### PROGRAM

- Work with networked, computer-controlled systems
- Test and measure electronic and digital systems
- Troubleshoot computer-based systems

### SPECIALIZED

- Develop microprocessor based systems
- Create programs leveraging algorithms designed to meet user needs
- Apply database programming skills
- Use software application and programming skills to solve business-oriented problems

## QUICK FACTS

**139**  
CREDIT HOURS  
minimum credit hours  
required for graduation

**3**  
Years  
minimum length  
to graduation<sup>1</sup>



### 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 – Computers degree program is accredited by The Engineering Technology Accreditation Commission of ABET (ETAC of ABET) [www.abet.org](http://www.abet.org).

**LEARN**  
FROM THOSE WHO  
**LEAD**

### LEARN FROM THOSE WHO LEAD

Our faculty possesses academic credentials and professional experience. They bring hard-earned knowledge from years of study and expertise honed through years of experience in the fields they teach.

<sup>1</sup> Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at <https://www.devry.edu/degree-programs.html>.

**ESSENTIALS****62**  
CREDIT HOURS**COMMUNICATION SKILLS**

ENGL112	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing
SPCH275	Public Speaking

**HUMANITIES**

HUMN303	Introduction to the Humanities
ETHC445	Principles of Ethics
LAS432	Technology, Society, and Culture

**SOCIAL SCIENCES**

ECON312	Principles of Economics
SOCS185	Culture and Society
SOCS325	Environmental Sociology

**MATHEMATICS, ANALYTICAL METHODS 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

**PROGRAM****36**  
CREDIT HOURS**ELECTRONIC CIRCUITS AND DEVICES**

ECET110	Electronic Circuits and Devices I with Lab
ECET210	Electronic Circuits and Devices II with Lab
ECET220	Electronic Circuits and Devices III with Lab
ECET350	Signal Processing with Lab

**DIGITAL CIRCUITS AND MICROPROCESSORS**

CEIS100	Introduction to Engineering Technology and Information Sciences
ECET105	Digital Fundamentals with Lab
ECET230	Digital Circuits and Systems with Lab
ECET330	Microprocessor Architecture with Lab
ECET340	Microprocessor Interfacing with Lab
ECET365	Embedded Microprocessor Systems with Lab

**SPECIALIZED****42**  
CREDIT HOURS**COMPUTER PROGRAMMING AND NETWORKING**

CEIS295	Data Structures and Algorithms
CIS170C	Programming with Lab
CIS247C	Object-Oriented Programming with Lab
CIS336	Introduction to Database with Lab
CIS355A	Business Application Programming with Lab
ECET360	Operating Systems with Lab
ECET375	Data Communications and Networking with Lab
ECET465	Advanced Networks with Lab
ECET490	Distributed Computing System Design with Lab

**SENIOR PROJECT DESIGN AND DEVELOPMENT**

ECET390	Product Development
ECET492L	Senior Project Development Lab I
ECET493L	Senior Project Development Lab II
ECET494L	Senior Project Development Lab III

**TECHNOLOGY INTEGRATION**

ECET299	Technology Integration I
ECET497	Technology Integration II

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