



Bachelor's Degree Programs

**COMPUTER ENGINEERING TECHNOLOGY** [CAMPUS]

**ENGINEERING TECHNOLOGY - COMPUTERS** [ONLINE]

### ABOUT THESE DEGREE PROGRAMS

Computer software enables everything from basic functions like email and word processing, to complex programs that drive today's mobile devices. DeVry University's bachelor's degree program in Computer Engineering Technology and Engineering Technology - Computers can prepare you with the skills for writing, implementing and testing software programs that drive modern electronic devices.

As a student, you can learn programming languages, operating systems environments, microprocessor fundamentals and how to decipher user needs. You can focus on real-world problems and solutions, gaining the experience that today's employers value.

The Computer Engineering Technology and Engineering Technology - Computers degree programs are accredited by The Engineering Technology Accreditation Commission (ETAC) of the Accreditation Board for Engineering and Technology (ABET). Some courses may be taken interchangeably between onsite and online to fulfill graduation requirements. The most recent information on which programs are ETAC of ABET accredited at which locations is available in the Academic Catalog and at <http://www.devry.edu/academics/accreditation.html>.

### GENERAL EDUCATION COURSEWORK<sup>1</sup>

#### 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
MATH260	Applied Calculus I
MATH270	Applied Calculus II

#### Natural Sciences

PHYS204	Applied Physics with Lab
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#### Personal and Professional Development

CARD405	Career Development
COLL148	Critical Thinking and Problem-Solving

<sup>1</sup> Most courses with the designator ECET may not be applied to this program if the courses are taken online.

### CORE-DEGREE COURSEWORK

#### 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

#### 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

### ACCREDITATION MATTERS

The Computer Engineering Technology and Engineering Technology - Computers degree programs are accredited, by location, by The Engineering Technology Accreditation Commission of ABET (ETAC of ABET) [www.abet.org](http://www.abet.org). 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 field Engineering Technology. To learn more visit [www.abet.org](http://www.abet.org).





## Bachelor's Degree Programs

### Computer Engineering Technology

### Engineering Technology - Computers

COLLEGE OF  
ENGINEERING & INFORMATION SCIENCES

#### CAREERS IN COMPUTER ENGINEERING TECHNOLOGY AND ENGINEERING TECHNOLOGY - COMPUTERS

The field of engineering technology has changed the way we live, play and work. It's difficult to imagine our world without cell phones, electronic gaming and the Internet.

DeVry University's Computer Engineering Technology and Engineering Technology - Computers degree programs provides students a broad range of applicable coursework, including programming, microprocessors, operating systems, product development, database system design and technology integration.

Graduates of DeVry University's Computer Engineering Technology and Engineering Technology - Computers programs may consider careers including, but not limited to, the following:

- Application Engineer
- Computer Automated Teller and Office Machine Technician
- Computer Support Specialist
- Customer Service Engineer
- Electrical Engineering Technician
- Electronics Technician
- Electronics Engineering Technician
- Engineering Specialist
- Engineering Technician
- Field Service Technician
- Manufacturing Technician
- Sales Engineer
- Test Engineer

For comprehensive consumer information, visit [devry.edu/studentconsumerinfo](http://devry.edu/studentconsumerinfo). Important information about the education debt, earnings and completion rates of students who attended this program can be found at [devry.edu/bcet-ge](http://devry.edu/bcet-ge). For additional program information, visit [devry.edu/bcet](http://devry.edu/bcet).

In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), [www.hlcommission.org](http://www.hlcommission.org). DeVry is certified to operate by the State Council of Higher Education for Virginia. Arlington Campus - 2450 Crystal Dr., Arlington, VA 22202. DeVry University is authorized for operation by the THEC, [www.tn.gov/thecc](http://www.tn.gov/thecc). Nashville Campus - 3343 Perimeter Hill Dr., Nashville, TN 37211. To report unresolved complaints to the Illinois Board of Higher Education, visit their webpage at <http://complaints.ibhe.org/> or by mail to the Illinois Board of Higher Education, 1 N. Old State Capitol Plaza, Suite 333, Springfield, IL 62701-1377. Program availability varies by location. ©2017 DeVry Educational Development Corp. All rights reserved. Version 09/27/17

#### KNOWLEDGE AND SKILLS

**MICROPROCESSOR ARCHITECTURE** — Explore the internal architecture of the microprocessor, the basic building block of current electronic systems. Use assembly language and/or high-level language to program the microprocessor and develop simple algorithms.

**DATA COMMUNICATIONS AND NETWORKING** — Learn principles of data communications, including noise effects, multiplexing and transmission methods, as well as the protocols, architecture and performance analysis of local and wide area networks.

**OPERATING SYSTEMS** — Explore basic operating system concepts such as process states and synchronization, multiprocessing, multiprogramming, processor scheduling, virtual memory, logical and physical input/output, device allocation and file management.

**DATABASE FUNDAMENTALS** — Concepts and methods fundamental to database development are developed including data analysis and modeling, as well as structured query language (SQL). Explore basic functions and features of a database management system (DBMS), with emphasis on the relational model.

**BUSINESS APPLICATION PROGRAMMING** — Programming and database skills to develop programs that support typical business processing activities and needs such as transaction processing and report generation. Business-oriented programs are developed that deal with error handling, data validation and file handling. Java is the primary programming language used. .

**COMPUTERS AND ELECTRONICS** — Understand circuit boards, processors, chips, electronic equipment and computer hardware and software, including applications and programming.

**QUALITY CONTROL ANALYSIS** — Conduct tests and inspections of products, services or processes to evaluate quality or performance.

**COMPLEX PROBLEM SOLVING** — Identify complex problems and review related information to develop and evaluate options and implement solutions.

**MATHEMATICS** — Understand and apply arithmetic, algebra, geometry, calculus and statistics.