# Bachelor’s Degree Program

## Computer Engineering Technology

### ABOUT THIS DEGREE PROGRAM

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 can prepare you for a 21st century career 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.

### GENERAL EDUCATION COURSEWORK

At DeVry University, we believe in the value of a comprehensive education. This means broadening your knowledge and skill sets beyond the area of your degree program, to help prepare you to succeed in today’s diverse and evolving workplace.

From day one, you can learn important analytical and communication skills, such as problem-solving, reasoning and analysis, academic and professional writing, and mathematics and statistics skills. These skills can better equip you to work across cultures and understand a wide range of concepts that influence your area of study.

**General Education Coursework:**
- Communication Skills
- Humanities
- Mathematics and Analytical Methods
- Natural Sciences
- Personal and Professional Development
- Social Sciences

### CORE-DEGREE COURSEWORK

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<tr>
<th>Course Code</th>
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<tr>
<td>COMP-122</td>
<td>Structured Programming with Lab</td>
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<td>COMP-220</td>
<td>Object-Oriented Programming with Lab</td>
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<tr>
<td>EGCT-100</td>
<td>Introduction to Electronics and Computer Engineering Technology with Lab</td>
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<td>EGCT-110</td>
<td>Electronic Circuits and Devices I with Lab</td>
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<td>EGCT-299</td>
<td>Technology Integration I</td>
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### PROGRAM AVAILABILITY

The Computer Engineering Technology degree program is only offered **onsite**. For students interested in an **online** degree program, please refer to the Engineering Technology – Computers program guide for more information.

### did you know?

The Computer Engineering Technology (CET) degree program is accredited, by location, by the Technology Accreditation Commission of ABET (TAC of ABET). The most recent information on the status of TAC of ABET accreditation of a location’s program is available from the location and at [www.devry.edu](http://www.devry.edu). ABET is the recognized accreditor for college and university programs in applied science, computing, engineering and technology that has provided quality assurance in higher education for over 75 years.

Note: DeVry’s academic catalog, available via [www.devry.edu/uscatalog](http://www.devry.edu/uscatalog), contains the most current and detailed program information, including graduation requirements.
CAREERS IN COMPUTER ENGINEERING TECHNOLOGY

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 degree program can provide students a broad range of applicable coursework, including programming environments, operating systems, product development, database system design and technology integration.

According to the U.S. Department of Labor, employment of computer engineers is projected to increase by 32 percent, between 2008 and 2018, much faster than the average for all occupations. “Demand for computer software engineers will increase as computer networking continues to grow. For example, expanding Internet technologies have spurred demand for computer software engineers who can develop Internet, Intranet, and World Wide Web applications.”

Graduates of DeVry University’s Computer Engineering Technology program may consider careers including:

- Application Engineer
- Customer Service Engineer
- Engineering Specialist
- Manufacturing Technician
- Sales Engineer
- Software Engineer
- Test Engineer

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, multiprocessor, multiprogramming, processor scheduling, virtual memory, logical and physical input/output, device allocation and file management.

DATABASE SYSTEM DESIGN—Learn structured query language (SQL) in order to implement and access a relational database. Embed SQL into a high-level language, such as C or Java.

PROGRAMMING ENVIRONMENTS AND JAVA—Study command-line-oriented UNIX, Linux and Eclipse IDE. Learn the Java programming language and advanced programming concepts, such as exception handling and the event-driven model for graphical user interfaces.

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.

MATH—Understand and apply arithmetic, algebra, geometry, calculus and statistics.

In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), www.ncahlc.org. DeVry is certified to operate by the State Council of Higher Education for Virginia. DeVry University is authorized for operation by the TAC, www.proctoit.org, operating systems, product development, database system design and technology integration.

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