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, microproccessor 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.

QUICK FACTS

140
CREDIT HOURS
minimum credit hours
required for graduation

3
YEARS
minimum length
to graduation[1]

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

GENERAL EDUCATION COURSEWORK[1]

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[2] 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
PHYS204 Applied Physics with Lab

Personal and Professional Development
CARD405 Career Development
COLL148 Critical Thinking and Problem-Solving

[1] Most courses with the designator ECET may not be applied to this program if the courses are taken online.

[2] Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.

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. 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.

ABET
Engineering
Technology
Accreditation
Commission

DeVry University

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

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.

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