

# Bachelor's Degree Program COMPUTER INFORMATION SYSTEMS

Specialization: **Computer Forensics**

## ABOUT THIS DEGREE PROGRAM

If you love technology, then you're one of the lucky ones: you can build the skills you need to do what you love in a variety of industries. And the Computer Information Systems program at DeVry University is a great place to start.

In our Computer Information Systems program, you can learn programming languages like C++, C# and Java, giving you the hands-on experience and skills for a career in the technology field. You can learn to write programs, update and expand existing programs, debug programs, and create and test code in an industry standard integrated development environment. Best of all, you can learn by doing: developing, coding, implementing, and testing software and computer programs for a variety of real-world applications.

Virtually every industry relies on computer information systems to help run their business, such as finance, healthcare, business, law, the military and more. At DeVry, you will develop problem-solving, programming, and troubleshooting skills to address 21st century business issues in any of these fields.

**DeVry's Computer Information Systems degree program allows you to select a specialization that will focus your education on your specific personal and professional goals, including:**

- Computer Forensics
- Cyber Security Programming
- Database Management
- Flex Option
- Information Systems Security
- Software Programming
- Systems Analysis and Integration
- Web Development and Administration
- Web Game Programming

## 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
- Natural Sciences
- Social Sciences

## CORE-DEGREE COURSEWORK

**ALL**  
of these  
courses

ACCT301	Essentials of Accounting
BUSN115	Introduction to Business Technology
CEIS100	Introduction to Engineering Technology and Information Sciences
CIS115	Logic and Design
CIS206	Architecture and Operating Systems with Lab
CIS246	Connectivity with Lab
CIS321	Structured Analysis and Design
CIS336	Introduction to Database with Lab
CIS339	Object-Oriented Analysis and Design
MGMT404	Project Management
SEC280	Principles of Information Systems Security

**1**  
of these  
courses

CIS170A	Programming with Lab
CIS170B	Programming with Lab
CIS170C	Programming with Lab

**1**  
of these  
courses

CIS247A	Object-Oriented Programming with Lab
CIS247B	Object-Oriented Programming with Lab
CIS247C	Object-Oriented Programming with Lab

**1**  
of these  
courses

CIS355A	Business Application Programming with Lab
CIS355B	Business Application Programming with Lab

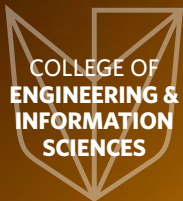
**1**  
of these  
courses

CIS363A	Web Interface Design with Lab
CIS363B	Web Interface Design with Lab

**1**  
of these  
courses

CIS407A	Web Application Development with Lab
CIS407B	Web Application Development with Lab

Listed below are sets of CIS courses, ending in A, B, or C that differ principally in the language/platform used to explore course concepts.



# Bachelor's Degree Program

## COMPUTER INFORMATION SYSTEMS

### Specialization: Computer Forensics

#### ABOUT THIS SPECIALIZATION

DeVry University's bachelor's degree program in Computer Information Systems can provide you with a solid foundation in technical software and programming skills. Our specialization in Computer Forensics can further focus your studies to align with your personal interests and professional goals.

Computer forensics investigators help track cyber criminals. They specialize in recovering data and gathering evidence, which is often encrypted or otherwise difficult to access, and then analyze it for use in investigations. They prepare reports on their findings and may appear in court to testify as expert witnesses. Computer forensics investigators can also help track the digital clues left behind from information security breaches and viruses.

DeVry University's Computer Forensics specialization can help you develop your deductive and inductive reasoning skills to formulate and test theories about how crimes may have been committed. You can also learn the technical skills for recovering erased files and email. Our program helps you gain a strong understanding of ethics and the law regarding computer usage.

Graduates of DeVry University's Computer Information Systems program with a specialization in Computer Forensics may consider careers including, but not limited to, the following:

- Computer Programmer
- Computer/Digital Forensics Investigator<sup>1</sup>

<sup>1</sup>Applicants for jobs in the criminal justice field may be subject to pre-employment screenings such as, but not limited to, criminal background checks, drug and/or alcohol testing, physical and/or psychological examinations and credit checks. Unsatisfactory screening results may disqualify an applicant for a position in the criminal justice field.

Additional government-required training programs or years of relevant experience may be necessary to obtain employment in this field.

#### 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. DeVry University is authorized for operation by the THEC. [www.tn.gov/thec](http://www.tn.gov/thec). Nashville Campus - 3343 Perimeter Hill Dr., Nashville, TN 37211. Program availability varies by location. ©2016 DeVry Educational Development Corp. All rights reserved. Version 04/01/16

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#### KNOWLEDGE AND SKILLS

**DIGITAL CRIME EVIDENCE AND PROCEDURE** — Study basic legal concepts and evidentiary procedures for investigating criminal activity involving computers and computer-based systems. Explore practical application of the law and legal procedures in the digital age.

**COMPUTER ETHICS** — Explore the nature and social impact of computer technology, and the corresponding formulation and justification of governmental and organizational policies for ethical uses of such technology.

**DIGITAL FORENSICS** — Apply basic forensic techniques used to investigate illegal and unethical activity within a PC or local area network (LAN) environment and resolve related issues.

**INFORMATION SYSTEMS SECURITY PLANNING AND AUDIT** — Understand the risk factor analysis that must be performed in order to design a flexible and comprehensive security plan.

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

**INFORMATION ORDERING** — Arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, or mathematical operations).

**INTERACTING WITH COMPUTERS** — Use computers and computer systems to program hardware, write software, set up functions, enter data or process information.

**LOGIC AND DESIGN** — Gain knowledge of the basics of programming logic, as well as algorithm design and development, including constants, variables, expressions, arrays, files and control structures for sequential, iterative and decision processing. Design and document program specifications using tools such as flowcharts, structure charts and pseudocode.

**STRUCTURED ANALYSIS AND DESIGN** — Explore the systems analysis and design process using information systems methodologies and techniques to analyze business activities and solve problems. Identify, define and document business problems, and then develop information system models to solve them.

#### PROGRAM-SPECIFIC COURSEWORK

ALL of these courses

CCSI330	Digital Crime: Evidence and Procedure
CCSI360	Computer Ethics
CCSI410	Digital Forensics I with Lab
CCSI460	Digital Forensics II with Lab
SEC440	Information Systems Security Planning and Audit

ALL of these courses

CIS470	Computer Information Systems Senior Project
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OR

ALL of these courses

CIS474	Computer Information Systems Senior Project I
CIS477	Computer Information Systems Senior Project II

#### DID YOU KNOW?

In cooperation with Microsoft®, DeVry University students benefit from a catalog of MSDN® Academic Alliance tools to support gaining hands-on experience using the technology critical to their career path. As a student enrolled in DeVry University's technology-oriented curricula, you will be able to download the software relevant to your classes at no additional cost.