COLLEGE OF
ENGINEERING & INFORMATION SCIENCES

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.

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
- Information Systems Security
- Software Programming
- Web Development and Administration
- Web Game Programming

Through our TechPath approach, we've put technology at the core of our programs in business, tech and health – including this program. Every TechPath class you take revolves around a unique learning rubric developed at DeVry. We call it People-Process-Data-Devices or P2D2. You'll gain real skills in collaboration, be able to adapt to new structures, and be comfortable working with data and a wide spectrum of tech-forward tools. P2D2 is a key component of what makes TechPath a smart, new way of getting the knowledge you need to be ready to hit the ground running in the way successful companies work today.

GENERAL EDUCATION COURSEWORK

Communication Skills

ENGL112[1]	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 and Natural Sciences

MATH114	Algebra for College Students
MATH221	Statistics for Decision-Making
SCI228[3]	Nutrition, Health and Wellness with Lab

Personal and Professional Development

CARD405	Career Development
COLL148	Critical Thinking and Problem-Solving

Business

BUSN115	Introduction to Business and Technology
MGMT404	Project Management

[1] Students enrolled at a New Jersey location take ENGL108 in lieu of this course.

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

[3] Students enrolled at a New Jersey location may take SCI200 to fulfill this requirement.

CORE-DEGREE COURSEWORK

Computer Systems Concepts

CEIS100	Introduction to Engineering Technology and Information Sciences
CIS115	Logic and Design
CIS206	Architecture and Operating Systems with Lab
SEC280	Principles of Information Systems Security

Networking – one of:

NETW202	Introduction to Networking with Lab
NETW203	Cisco Networking Academy – Introduction to Networking with Lab

Programming and Database Fundamentals

CIS170C	Programming with Lab
CIS247C	Object-Oriented Programming with Lab
CIS336	Introduction to Database with Lab

Computer Information Systems Foundations

ACCT301	Essentials of Accounting
CIS321	Structured Analysis and Design
CIS339	Object-Oriented Analysis and Design
CIS355A	Business Application Programming with Lab
CIS363B	Web Interface Design with Lab
CIS407A	Web Application Development with Lab

Senior Project

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

Programs, course requirements and availability vary by location. Some courses may be available online only. All students enrolled in site-based programs will be required to take some coursework online and, for some programs and locations, a substantial portion of the program may be required to be completed online. DeVry's academic catalog, available via devry.edu/catalogs, contains the most current and detailed program information, including admission, progression and graduation requirements. Information contained herein is effective as of date of publishing.

Courses in blue are part of the DeVry Tech Path

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

DeVry University

Bachelor's Degree Program | Computer Information Systems

SPECIALIZATION: COMPUTER FORENSICS

COLLEGE OF
ENGINEERING & INFORMATION SCIENCES

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/Digital Forensic Investigator[1]
- Computer Programer

[1]Applicants for jobs in the justice administration 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 justice administration field.

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

Employment in some occupations may require years of relevant experience.

For comprehensive consumer information, visit 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/bcis-ge. For additional program information, visit devry.edu/bcis.

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

Computer Forensics

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

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.

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DeVry University

Visit DeVry.edu or call 888.DEVRY.04