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 successful 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.

A specialization must be chosen before the completion of 60 credit hours. Available specializations are:

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

**KNOWLEDGE AND SKILLS**

**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.

**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.

**SPECIALIZATIONS**

**ABOUT THIS DEGREE PROGRAM**

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

**GENERAL EDUCATION COURSEWORK**

**Communication Skills**

- ENGL112 Composition
- ENGL135 Advanced Composition
- ENGL216 Technical Writing
- SPC227 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
- SOCS332 Environmental Sociology

**Mathematics and Natural Sciences**

- MATH144 Algebra for College Students
- MATH221 Statistics for Decision-Making
- SCI228 Nutrition, Health and Wellness with Lab

**Personal and Professional Development**

- CARD405 Career Development
- COLL448 Critical Thinking and Problem-Solving

**Business**

- BUSN105 Introduction to Business and Technology
- MGMT404 Project Management

**ENGINEERING & INFORMATION SCIENCES**

**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.

**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

 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.

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.