

Bachelor's Degree Program Computer Information Systems

Specialization: Information Systems Security

ABOUT THIS DEGREE PROGRAM

The world and our lives thrive on the ease and speed of access to information that is made possible by computers and the Internet. Earning a bachelor's degree in the Computer Information Systems program at DeVry University can put you on the path to a career helping people access, share, store and act on the information they need.

You may be surprised at the wide variety of sectors and industries that rely on computer information systems. These include finance, healthcare, business, law, the military and, of course, information technology. DeVry University's degree program can help you develop your problem solving, programming and troubleshooting skills to address 21st century business issues in any of these fields.

Our Computer Information Systems degree program allows you to select a specialization that will focus your education on your specific career goals.

Specializations offered within the Computer Information Systems degree program:

- Business/Management
- Computer Forensics
- Database Management
- Enterprise Computing
- Health Information Systems
- Information Systems Security
- 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 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
- Personal and Professional Development
- Social Sciences

CORE-DEGREE COURSEWORK

all
of these
courses

ACCT-301	Essentials of Accounting
BUSN-115	Introduction to Business Technology
CIS-115	Logic and Design
CIS-206	Architecture and Operating Systems with Lab
CIS-246	Connectivity with Lab
CIS-321	Structured Analysis and Design
CIS-336	Introduction to Database with Lab
CIS-339	Object-Oriented Analysis and Design
COMP-100	Computer Applications for Business with Lab
MGMT-404	Project Management
SEC-280	Principles of Information Systems Security

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.

1
of these
courses

CIS-170A	Programming with Lab
CIS-170B	Programming with Lab
CIS-170C	Programming with Lab

1
of these
courses

CIS-247A	Object-Oriented Programming with Lab
CIS-247B	Object-Oriented Programming with Lab
CIS-247C	Object-Oriented Programming with Lab

1
of these
courses

CIS-355A	Business Application Programming with Lab
CIS-355B	Business Application Programming with Lab

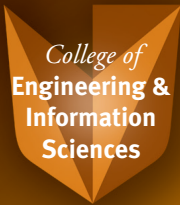
1
of these
courses

CIS-363A	Web Interface Design with Lab
CIS-363B	Web Interface Design with Lab

1
of these
courses

CIS-407A	Web Application Development with Lab
CIS-407B	Web Application Development with Lab

General Education Coursework (credit hours)	50
Core-Degree Coursework (credit hours)	+ 57
Career-Focused Coursework (credit hours)	+ 19
Approximate Credit Hours Required for Graduation (Eight Full-Time Semesters to Complete)	126



Bachelor's Degree Program Computer Information Systems

Specialization: *Information Systems Security*

ABOUT THIS SPECIALIZATION

DeVry University's Bachelor's degree in Computer Information Systems can provide you with a solid foundation in technical software and programming skills. Our specialization in Information Systems Security can further prepare you to reach your individual career goals.

As long as computers and electronic systems are used to house valuable information, there will be those who attempt to breach those systems and use the information to their own advantage. Information security specialists design the systems, procedures and policies that help avoid data and identity theft, computer viruses and other electronic security breaches.

DeVry University's Information Systems Security specialization can teach you how to develop and implement various methods of securing data and computer systems. You can learn to recognize and assess threats, align policies and procedures with applicable laws and regulations, and ensure that data is backed up in the event of an emergency.

Topics in this specialization include information system auditing, web security, privacy and ethical issues, and business continuity.

Graduates of DeVry University's Computer Information Systems degree program with a specialization in Information Systems Security may consider careers including:

- Computer Security Specialist
- Data Security Administrator
- Information Security Analyst
- Information Security Manager
- Information Security Officer
- Information Security Specialist
- Information Technology Security Analyst

According to the Bureau of Labor Statistics, employment of computer network, systems and database administrators, including computer security specialists, is expected to grow by 30 percent from 2008 to 2018, which is much faster than the average for all occupations. According to their *Occupational Outlook Handbook*, "growth will ... be driven by the increasing need for information security. As cyber attacks become more sophisticated, demand will increase for workers with security skills."¹

¹Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, 2010-11 Edition*, Computer Network, Systems and Database Administrators, on the Internet at www.bls.gov/oco/ocos305.htm (visited March 8, 2011).

²DeVry University, on the Internet at www.devry.edu/degree-programs/college-engineering-information-sciences/information-systems-security-about.jsp.

³O*NET OnLine, Computer Security Specialists, on the Internet at www.online.onetcenter.org/link/summary/15-1071.01 (visited March 1, 2011).

In New York, DeVry University operates as DeVry College of New York.

Program and course requirements and availability vary by location. Some courses may be available online only. Refer to the current academic catalog for more detailed information.

DeVry University operates as DeVry Institute of Technology in Calgary, Alberta. DeVry is certified to operate by the State Council of Higher Education for Virginia. AC0060. DeVry University is authorized for operation by the THEC, www.state.tn.us/thec. Nashville Campus - 3343 Perimeter Hill Dr., Nashville, TN 37211. ©2011 DeVry Educational Development Corp. All rights reserved. Version 5/4/11

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KNOWLEDGE AND SKILLS

BUSINESS CONTINUITY² — Focus on preparing for, reacting to and recovering from events that threaten the security of information and information resources, or that threaten to disrupt critical business functions.

DATA PRIVACY AND SECURITY² — Explore the legal, ethical and security issues involving data and information assets that organizations must address to ensure operational continuity as well as compliance with standards, policies and laws.

WEB SECURITY² — Examine issues involved in protecting web-based applications from external threats while safeguarding customer privacy and accessibility.

INFORMATION SYSTEMS SECURITY PLANNING AND AUDIT² — Study the kind of risk factor analysis that must be performed in order to design a flexible and comprehensive security plan.

DETERMINING COMPLIANCE WITH STANDARDS³ — Use relevant information and individual judgment to determine whether events or processes comply with laws, regulation or standards.

PUBLIC SAFETY AND SECURITY³ — Gain knowledge of relevant equipment, policies, procedures and strategies to promote effective local, state and national security for the protection of people, data, property and institutions.

DATA ANALYSIS³ — Identify the underlying principles, reasons or facts by breaking down information or data into separate parts.

INTERACTING WITH COMPUTERS³ — Use computers and computer systems to program hardware, write software, set up functions, enter data or process information.

CAREER-FOCUSED COURSEWORK

all
of these
courses

- SEC-340 Business Continuity
- SEC-360 Data Privacy and Security
- SEC-370 Web Security
- SEC-440 Information Systems Security Planning and Audit

all
of these
courses

- CIS-470 Computer Information Systems Senior Project

OR

all
of these
courses

- CIS-474 Computer Information Systems Senior Project I
- CIS-477 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.

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