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
- 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

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

AGCT-301 Essentials of Accounting
BUSN-115 Introduction to Business Technology
CIS-116 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

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

Note: DeVry’s academic catalog, available via www.devry.edu/uscatalog, contains the most current and detailed program information, including graduation requirements.
Bachelor’s Degree Program
Computer Information Systems

Specialization: Systems Analysis and Integration

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 Systems Analysis and Integration can further prepare you to reach your individual career goals.

Systems analysts help companies to make smart decisions about their computer hardware and software choices. They often specialize in a particular area, such as finance, engineering, business or non-profit organizations. They may work with one company or as a consultant to many companies. Systems analysts need both technical knowledge of the latest solutions and good interpersonal skills in order to understand both the individual user and business needs.

As a student in the Systems Analysis and Integration specialization, you can receive hands-on experience in today's operating systems, programming languages and systems solutions, while developing the required “soft skills” of written and verbal communication.

Topics in this specialization include analysis of business needs and systems, contingency planning, complex problem solving, computer hardware and software, and more.

Graduates of DeVry University’s Computer Information Systems program with a specialization in Systems Analysis and Integration may consider careers including:

- Application Architect
- Application Designer
- Systems Analyst
- Systems Consultant
- Systems Integration Manager
- Test Manager

According to the Bureau of Labor Statistics, employment of computer systems analysts is expected to grow by 20 percent from 2008 to 2018, which is much faster than the average for all occupations. According to their Occupational Outlook Handbook, “demand for these workers will increase as organizations continue to adopt and integrate increasingly sophisticated technologies and as the need for information security grows.”

KNOWLEDGE AND SKILLS

SYSTEMS INTEGRATION — Learn to integrate standalone systems by applying information systems analysis and design, database management, transaction processing and application development.

ADVANCED TOPICS IN ENTERPRISE ANALYSIS — Explore enterprise analysis tools, methodologies and capacity planning as related to information systems, enterprise architecture, and risk analysis and management.

ORGANIZATIONAL PROCESS ANALYSIS — Address analytical techniques used to model process flow. Explore process rules and maturity in the context of characterizing workflow effectiveness and identifying opportunities for process improvement.

BUSINESS CONTINUITY — 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.

CONSULTING AND ASSESSMENT — Consult with users, management, vendors and technicians to assess computing needs and system requirements.

INTERPRET INFORMATION — Translate or explain what information means and how it can be used.

ANALYTICAL THINKING — Analyze information and use logic to address work-related issues and problems.

INTERACTING WITH COMPUTERS — 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

SAI-430 System Integration with Lab
SAI-440 Advanced Topics in Enterprise Analysis
SAI-460 Organizational Process Analysis
SEC340 Business Continuity

all of these courses

CIS-470 Computer Information Systems Senior Project

all of these courses

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

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.