

## From computer forensics to web developer, the path to tomorrow's hot career opportunities in information systems begins at DeVry.

Your fascination with computer games, programs and search engines could lead you straight into some of the hottest career fields ever. Countless career opportunities are out there for information systems experts – experts who know that the power of the computer is what keeps today's businesses competitive in the global marketplace. As a vital member of the information systems team, you could:

- Develop software code for computer games and simulations.
- Investigate suspected fraud by analyzing deleted or encrypted digital files or work to secure and protect computer systems.
- Help businesses grow by developing databases or monitoring and evaluating their computer systems.
- Cash in on the Internet by developing, launching and maintaining web sites and web-based applications and building and managing Internet marketing and retailing activities, including payment systems and order fulfillment.

Get in on the growth. According to the Bureau of Labor Statistics, computer software application engineers, database administrators, design project managers and systems analysts are projected to be among the top 20 fastest growing occupations through 2012, in major demand in widely diverse industries:

- Automotive
- Business
- Education
- Finance
- Gaming
- Government
- Healthcare
- Hospitality
- Insurance
- Manufacturing
- Military
- Retail and e-commerce

## Career opportunities in information systems are abundant and at all levels for those with the right qualifications.

### If you're into computers, why not build your career around them?

To prepare for the growing opportunities in information systems, you'll need the right combination of knowledge and practical know-how. DeVry can help you develop the educational foundation you need to enter and advance in this field.



## Jump on one of these hot career opportunities in information systems.

### **Computer Information Systems Specialists**

apply business and problem-solving skills to design, develop, test and evaluate software and computer systems. Also known as applications software specialists, computer software applications engineers, web development and administration specialists, software engineers and software analysts, these professionals are responsible for:

- Analyzing computer systems and business problems.
- Building, modifying and/or enhancing application program modules using object-oriented languages such as C++ and Java.
- Performing content and technical analysis of web sites, including gathering and examining data to determine customer requirements.
- Working as part of a team with engineers, marketers and manufacturers to design new hardware, software and systems.

Computer information systems experts can also specialize:

**Computer Forensics Specialists** investigate suspected fraud or criminal cases and prepare information for legal use. They also recover deleted, encrypted or damaged digital file information.

**Database Managers and Administrators** develop and analyze database architecture to meet company needs. They may also supervise staff and manage daily activities.

**Information Systems Security Specialists** develop and maintain security procedures, standards, protocols and policies.

**Systems Analysts** ensure that their organizations' information systems have the capacity to meet current and future systems requirements, as well as help manage risk inherent with these systems.

**Web Developers and Administrators** build, launch and maintain their companies' web sites and web-based applications.

**Business Managers** leverage their skills both in technology and business to help their companies reach their goals.

### **Game Simulation Programmers and Software Engineers**

develop critical software code that makes a computer game or simulation work. Related job titles include computer game, test simulation and animation programmer; Internet game, e-learning and military simulation developer; and design project engineer.

Professional responsibilities include:

- Working with game designers, transforming their vision into a working game or simulation.
- Using programming principles to integrate graphics, animation and sound.
- Using high-level math such as analytic geometry and linear algebra to graph and manipulate two- and three-dimensional objects.
- Developing interactive applications using instructional design principles and modeling fundamentals.
- Training system users.

## Start your career with an education that lays the groundwork for success.

The right education can help turn your interest in computer games, programs and search engines into a career with a future. As technology advances, a bachelor's degree is becoming more important than ever to entering the job market. To advance, many information systems professionals go on to earn master's degrees in computer science, business or technology.

Start your career with a solid foundation of knowledge and on-the-job experience that allows you to:

- Communicate effectively with both technical and non-technical staff.
- Prioritize work and manage multiple projects.
- Continually update your skills and broaden your knowledge and experience.

## DeVry is as focused on your career as you are.

We're committed to helping you build the knowledge base you need to enter and advance in the career of your dreams. To achieve this, our degree programs integrate technical coursework and general education. We offer two educational paths that prepare graduates for successful careers in the growing field of Information Systems.

### Bachelor's Degree Programs

#### Computer Information Systems – 8 Semesters

Graduates of this program have gained experience with the theory behind – and practical applications needed for – designing, developing, testing and evaluating complex software and computer systems.

Program-specific coursework includes:

- Logic and design, architecture and operating systems, connectivity, computer applications for business, principles of information technology, programming, and web and systems development.

To enhance long-term career flexibility, DeVry offers multiple learning tracks within the CIS program:

- Computer Forensics
- Database Management
- Information Systems Security
- Systems Analysis and Integration
- Web Development and Administration
- Business/Management

A flex option is also available.

**Details are available at** [www.devry.edu/programs/computer\\_information\\_systems/about.jsp](http://www.devry.edu/programs/computer_information_systems/about.jsp)

#### Game and Simulation Programming – 8 Semesters

This program prepares graduates to enter the booming game and simulation industry through targeted coursework in higher level math and science, programming, creative design and communication skills.

Program-specific coursework includes:

- Introduction to game and simulation development, practical game design, visual and audio game design fundamentals, simulation design, modification and level design, software engineering for game programming and project management.

**Learn more at** [www.devry.edu/programs/game\\_and\\_simulation\\_programming/about.jsp](http://www.devry.edu/programs/game_and_simulation_programming/about.jsp)

## DeVry's Career Advantage.

**Classes are small; hands on.** Get the individual attention you want and learn the critical skills you need in a hands-on environment that is uniquely student-focused.

**Accelerated schedule: 4 years in 3.** Onsite/online flexibility. Taking classes onsite or online offers the flexibility you need to fit your busy schedule. Our year-round schedule lets you graduate sooner.

**Real-world faculty: real-world curriculum.** Gain knowledge from successful professionals who use curriculum responsive to industry needs and who will provide you with relevant insights.

**Education that's affordable.** Invest in your future. We'll help you apply for the funds needed to make college more affordable.

**Employment results: 90%\*.** Earn a degree that is recognized by leading employers to get the interviews you need to start your career.

**Reputable accreditation/degrees employers value.** Earn an associate, bachelor's or master's degree from a university that's accredited like other top schools to get started on the path to a successful career.

\*Since 1975, 90.1% of DeVry graduates system-wide in the active job market held positions in their fields of study within 6 months of graduation.

DeVry University is accredited by The Higher Learning Commission of the North Central Association, [www.ncahlc.org](http://www.ncahlc.org).

DeVry University operates as DeVry College of New York in New York and DeVry Institute of Technology in Calgary, Alberta.

## Resources

Make an educated decision about your career. You'll find valuable information at:

[www.igda.org](http://www.igda.org)  
International Game  
Developers Association

[www.gamedev.net](http://www.gamedev.net)  
Game Development

[www.gamasutra.com](http://www.gamasutra.com)  
Gamasutra

[www.gdmag.com](http://www.gdmag.com)  
Game Developer Magazine

[www.educationarcade.org](http://www.educationarcade.org)  
The Education Arcade

[www.siiia.net](http://www.siiia.net)  
Software & Information  
Industry Association

[www.itaa.org](http://www.itaa.org)  
Information Technology  
Association of America

[www.computer.org](http://www.computer.org)  
IEEE Computer Society

[www.aiim.org](http://www.aiim.org)  
Association for Information and  
Image Management

[www.bls.gov](http://www.bls.gov)  
Bureau of Labor Statistics

[www.salary.com](http://www.salary.com)  
Salary Information

*Web sites current at time of publication.*

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