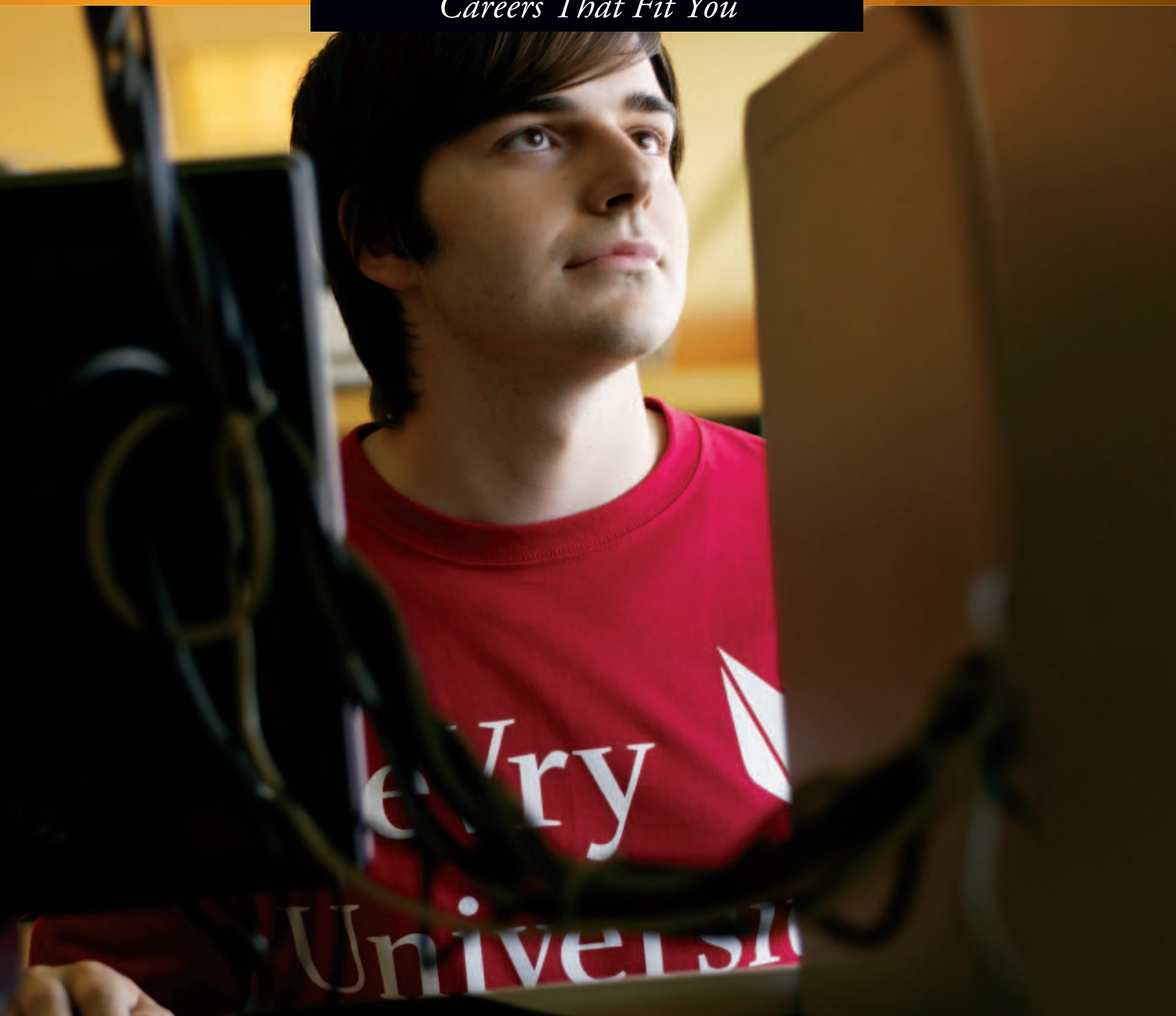




Information Systems

College of Engineering & Information Sciences

Careers That Fit You



Build your career around
your talents

Do you have an interest in computers and how their programs work? Do you have a mind for numbers and data? The information systems industry offers a wide variety of career options – and not just with IT companies. With the right education, you could work at an Internet retailer, an aerospace company or a financial services firm. Or you could use your knowledge to help government agencies, hospitals or the military to organize data and respond to changing information needs. You could even use your skills to solve cybercrimes and uncover computer fraud.

Let nothing stand in the way of pursuing a career in computer information systems

New opportunities emerge every day in this field. Consider these statistics reported from a respected source:

- An increasing reliance on information technology will **spur demand for computer systems design and related services**. This industry **will add about 656,400 jobs over the decade (2008 – 2018)**, placing it among the 5 industries with the largest job growth.¹
- **Network systems and data communications analysts** is projected to be the **second-fastest-growing occupation** in the economy. Demand for these workers will increase as organizations continue to upgrade their information technology capacity and incorporate the newest technologies.²
- Among **computer and information systems managers, job growth** is expected to be the **fastest in computer systems design establishments**; software publishing firms; data processing and hosting companies; management, scientific, and technical consulting services; and healthcare organizations.³
- Overall **employment of computer network, systems, and database administrators** is projected to **increase by 30 percent from 2008 to 2018**, much faster than the average for all occupations. In addition, this occupation will **add 286,600 new jobs** over that period.⁴

¹ Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2010-11 Edition, Computer Systems Design and Related Services, on the Internet at www.bls.gov/oco/cg/cgs033.htm (visited May 24, 2011).

² Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2010-11 Edition, Overview of the 2008-2018 Projections, on the Internet at www.bls.gov/oco/oco2003.htm (visited May 24, 2011).

³ Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2010-11 Edition, Computer and Information Systems Managers, on the Internet at www.bls.gov/oco/ocos258.htm (visited May 24, 2011).

⁴ Bureau 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/oco2003.htm (visited May 24, 2011).

DeVry University can help you turn your talents into a career

If you've thought about designing, programming or using software to help solve business problems or implement information systems, a degree from DeVry University can help you turn your talents into a career. We can help you develop your natural abilities and understand the technologies and skills you need to succeed. With the right education, we can help you to be prepared to pursue these careers in the information systems field.

Computer Digital/Forensic Investigators recover, analyze and report on data found in computers for investigations and trials. They determine how systems are hacked, and recover data that has been encrypted or erased. They have excellent logic skills and use their analytical talents to understand the criminal mind.

Computer or Information Systems Managers develop and interpret organizational goals related to information and data. They oversee projects designed to create or improve computer systems or applications. They have strong programming and organizational skills. Some positions may require specialized certifications.

Computer Programmers write programs that handle either specific tasks or functions (applications) or enable computer hardware or networks (systems) to operate. They test and maintain these programs and update and develop patches for new functionality or bugs. Math and logic skills are vital to a successful career in this field.

Computer Systems Analysts provide assistance in solving computer-related problems, such as malfunctions and program problems. They must be excellent communicators, able to understand the needs of individuals who may or may not have technical backgrounds.

Computer Systems Software Engineers work with hardware engineers to design and develop software systems that meet consumer needs. They develop installation and upgrade plans, test systems and incorporate customer feedback into upgrades. Programming troubleshooting skills, as well as the ability to work both alone and in teams, are key.

Database Administrators create, implement and test stores of information contained in databases. Some of this information may be highly personal, such as account numbers, health records or financial transaction data. Administrators must coordinate security efforts to safeguard data while allowing for flexible storage and retrieval of the information. Logic skills are a must, as is knowledge of business ethics.

Health Information Administrators work at hospitals and other large care providers to develop, implement, organize, update and maintain information and patient records. They may supervise teams of analysts, records specialists and informatics developers. They need leadership and teamwork skills to succeed in this position.

Health Information Technicians create and keep careful records of office visits, diagnoses and treatment histories. Technicians must know the language of medical coding for record keeping and billing purposes as well. Strong programming skills are a must, as is an understanding of insurance industry laws and requirements.

Hardware/Software Salespeople help business owners, company IT staff, government agencies and other organizations choose computer hardware and software that improve operations and allow appropriate access to critical information. Successful salespeople possess strong interpersonal and communications skills. Many sales positions also demand extensive travel to meet with customers and business partners.

Web Game Programmers possess a hybrid of creative and technical skills that help them design interactive web-based games and web pages that integrate movie clips, sound effects, images and animations. Knowledge of interactive programming and design software is essential.

Web Programmers write the code that allows websites to function and appear as they should. They need knowledge of specialized coding languages and programs like HTML, XML and Flash. They have excellent math and logic skills.



Resources

Make an educated decision about your career. You can learn more about the careers we've featured by visiting these websites.

Association for Computing Machinery
www.acm.org

Association of Information Technology Professionals
www.aitp.org

IEEE Computer Society
www.computer.org

Manufacturers' Agents National Association
www.manaonline.org

Manufacturers' Representatives Educational
Research Foundation
www.mreref.org

National Workforce Center for Emerging Technologies
www.nwcet.org

Software & Information Industry Association
www.siiia.net

The League of Professional System Administrators
www.lopsa.org

Bureau of Labor Statistics
www.bls.gov

Salary information
www.salary.com

Websites current at time of publication.

Earn an education
that can work
for a lifetime

**We can help you every step of the way at
DeVry University**

At DeVry University, you can find what you need to succeed – flexible schedules, personal attention, hands-on learning and professors with real, practical experience. Plus, you can obtain the ongoing support you need to pursue a career path that's right for you.

You can learn the technical software and programming skills that can provide you an edge in your career. And you can develop the critical business skills that can help you succeed in many business environments. Our career-focused learning can prepare you with the knowledge and skills that employers are looking for – and an education they respect. As part of your studies, you can use up-to-date business-oriented computer equipment and receive guidance from professors with industry experience. Coursework in our bachelor's degree programs culminates with the completion of a Senior Project, which addresses real business needs.

As a student, you can build your knowledge in programming languages like C++, Java and Perl for operating systems, including IBM®, Power Systems™ and System Z® platforms, Linux® and UNIX®. When you land your dream career, you can be prepared with the skills and experience you need to jump right into your new role.

A DeVry University diploma also means you can earn a degree from an institution that is accredited by The Higher Learning Commission of the North Central Association (ncahlc.org), a significant mark of institutional quality and integrity.

Trademarks herein are property of their respective owners.

Intrigued by the possibilities? Learn as much and make an

Begin your path to a successful career at DeVry University

DeVry University offers a variety of degree programs* and areas of specialization through the college of Engineering & Information Sciences, to help start you on the right path to a successful career in computer information systems.

Computer Information Systems Bachelor's Degree Program

Our bachelor's degree program in Computer Information Systems lets you explore and examine innovative technologies and discover new ways the industry is implementing and leveraging information systems. We offer specializations that can help focus your studies for the career you want to pursue.

- **Business/Management** — Develop your business knowledge and management skills as you earn a technical degree. Study project management, human resource management, operations, communication, motivation and leadership along with learning programming and building software solutions.
- **Computer Forensics** — Acquire, analyze and report electronic evidence. Recover deleted and damaged data and break encryption codes. Explore how to work with law enforcement personnel and government systems that rely on the evidence that computer forensics discover.
- **Database Management** — Learn skills required to design, program, administer and secure database systems. Analyze database needs and find solutions to a wide range of information storage challenges.
- **Enterprise Computing** — Learn how to develop solutions for wireless and mobile computing that address data security, system availability, and sharing across many platforms. Developed in conjunction with IBM, this specialization can teach you how to keep high-volume, large-scale critical operations functioning smoothly on IBM Power Systems and IBM System z platforms, while learn coding languages, such as Java, PHP and RPG.
- **Health Information Systems** — Learn about the technologies and best practices of information systems specific to the healthcare industry. Understand how healthcare laws and policies, such as the Health Insurance Portability and Accountability Act (HIPAA) and Health Level Seven, affect information technology in this sector.
- **Information Systems Security** — Develop and implement security procedures, standards and policies and ensure compliance with laws and regulations.
- **Systems Analysis and Integration** — Learn how to test information system capacity, capability and security. Design and develop new systems and solve challenging computer-related problems, to help companies make smart decisions on their hardware and software choices.
- **Web Development and Administration** — Learn the technical aspects, as well as the design of websites. Explore the planning, problem-solving, organization and programming skills necessary to examine site functions including e-commerce, ratings and reviews and more. Examine and develop site architecture and wireframes to address user needs.
- **Web Game Programming** — Learn the programming skills needed to create web-based games and simulations. Study coding, style sheets, database integration and specialized scripting languages like XML and ActionScript.



*Program availability varies by location.
Some coursework may be available online only.

as you can, informed decision *about your career path.*

Choose the area of study that's right for your career goals

Use this quick-reference chart to find which DeVry University degree program and specialization is right for your career choice in the information systems field.

		Degree Programs								
		Computer Information Systems								
		Specializations								
		<i>Business/ Management</i>	<i>Computer Forensics</i>	<i>Database Management</i>	<i>Enterprise Computing</i>	<i>Health Information Systems</i>	<i>Information Systems Security</i>	<i>Systems Analysis and Integration</i>	<i>Web Development and Administration</i>	<i>Web Game Programming</i>
Careers Opportunities	Computer Digital/Forensic Investigator		●							
	Computer or Information Systems Manager	●	●	●	●	●	●	●	●	●
	Computer Systems Analyst	●	●	●	●	●	●	●	●	●
	Computer Systems Software Engineer	●	●	●	●	●	●	●	●	●
	Computer Programmer	●	●	●	●	●	●	●	●	●
	Database Administrator			●					●	
	Hardware/Software Sales	●	●	●	●	●	●	●	●	●
	Health Information Administrator					●				
	Health Information Technician					●				
	Web Game Programmer									●
	Web Programmer								●	

Are you programmed for a career in computer information systems?
Visit devry.edu or call 888.DEVRY.04 to learn how you can make it happen.





Visit devry.edu or call 888.DEVRY.04

For comprehensive consumer information, visit devry.edu/studentconsumerinfo

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.

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