BACHELOR’S DEGREE PROGRAM | TECH - SOFTWARE AND INFORMATION SYSTEMS

COMPUTER INFORMATION SYSTEMS
Specialization: Web Development and Administration

ABOUT THIS DEGREE PROGRAM

A FOUNDATION IN TECHNOLOGY
This program is anchored with Tech Core, curriculum designed to help you build a foundation of interdisciplinary skills you’ll need for today’s Internet of Things (IoT) economy. You’ll learn relevant skills in operating systems, programming, hardware, connectivity and security – giving you a hands-on foundation in engineering technology, information technology and software and information systems.

A PROGRAM TO FUEL YOUR FUTURE
Learn protocols and techniques necessary to create and maintain sensible website layouts and integrate graphics, applications and other content. You’ll also learn to web-design programs using a variety of computer languages, such as HTML or JavaScript.

IS THIS PROGRAM FOR YOU?
Interested in pursuing a career in computer information systems and developing appealing and functional websites? Then this program may be the right fit for you.

CAREER OPPORTUNITIES
Graduates of DeVry’s Computer Information Systems degree program with a specialization in Web Development and Administration may consider, but are not limited to, the following careers:

• Web Application Developer
• Web Designer
• Web Master
• Applications Manager
• Front-end and Back-end Developer
• Web Designer

WHAT YOU’LL LEARN

ESSENTIALS
• Communicate methods and findings
• Collaborate in dynamic work environments
• Solve complex problems
• Analyze numerical data
• Apply appropriate technologies

TECH CORE
• Produce, secure, operate and troubleshoot small enterprise networks
• Network, secure and deploy digital devices and sensors into the IoT ecosystem
• Solve technical problems using an algorithmic approach and basic programming and coding methods
• Install and configure operating systems using command-line interface (CLI)

PROGRAM
• Use advanced programming techniques
• Develop applications
• Analyze and design software systems
• Develop web-based interfaces and designs

SPECIALIZED
• Mitigate web-based security threats
• Deploy C2C and B2B methodologies
• Understand and deploy web-based protocols
• Deploy advanced web programming techniques

QUICK FACTS

124 CREDIT HOURS
minimum credit hours required for graduation¹

8% GROWTH
nationally from 2019-2029 for Employment of Web Developers and Digital Designers ²

2 + 8 YEARS + MONTHS
minimum length to graduation²

3-IN-1
Earn two extra credentials with our unique 3-in-1 design. All courses in our Programming Essentials Certificate and Information Technology & Networking associate degree with a specialization in Information Systems and Programming are embedded within this program. So you can earn a certificate and an associate degree on the way to your bachelor’s.

WORK WITH IOT TECHNOLOGIES & SYSTEMS
Immerse yourself in the Internet of Things (IoT) world and obtain hands-on experience with IoT, cloud, software and security technologies and systems.

CERTIFICATION EXAM REIMBURSEMENT
We reimburse qualified students up to $300 for the cost of one industry certification exam attempt across a wide range of fields.

BE AN ACTIVE PART OF AN INCLUSIVE FUTURE
Customize your curriculum by choosing Diversity, Equity and Inclusion (DE&I) course alternates for your Communication Skills, Humanities and Social Science courses. These options highlight relevant topics to help empower you to promote an inclusive workplace.

¹ 127 for students enrolled at a Pennsylvania location
³ Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at https://www.devry.edu/online-programs.html.
Bachelor's Degree Program | Tech - Software and Information Systems

Computer Information Systems | Web Development and Administration

ESSENTIALS

47 CREDIT HOURS

COMMUNICATION SKILLS

ENG112 Composition
ENG135 Advanced Composition
ENG216 Technical Writing

Select one

SPCH275 Public Speaking
SPCH276 Intercultural Communication

HUMANITIES

21 CREDIT HOURS

LAS432 Technology, Society, and Culture

Select one

ETHC232 Ethical and Legal Issues in the Professions
ETHC334 Diversity, Equity and Inclusion in the Workplace

SPECIALIZED

16 CREDIT HOURS

WEB DEVELOPMENT AND ADMINISTRATION

SBE430 E-Commerce for Small Business
SEC380 Cloud Computing Security
WEB375 Web Architecture with Lab
WEB460 Advanced Web Application Development with Lab

Demonstrate Skills at Every Step

BACHELOR'S

ASSOCIATE

22 CREDIT HOURS

60 CREDIT HOURS

EMBEDDED PROGRAMS

With our exclusive 3-in-1 design, you can earn two additional credentials while working toward your bachelor's degree. All courses in our Programming Essentials certificate and Information Technology and Networking associate degree are embedded within this program. So you can earn a certificate and an associate degree on the way to your bachelor's degree.

TECH CORE

40 CREDIT HOURS

TECH CORE

CEIS101 Introduction to Technology and Information Systems
CEIS106 Introduction to Operating Systems
CEIS110 Introduction to Programming
CEIS114 Introduction to Digital Devices
NETW191 Fundamentals of Information Technology and Networking
NETW211 Fundamentals of Cloud Computing
SEC285 Fundamentals of Information Security

PROGRAM

INFORMATION SYSTEMS AND PROGRAMMING

CEIS150 Programming with Objects
CEIS209 Intermediate Programming
CEIS236 Database Systems and Programming Fundamentals
CEIS312 Introduction to Artificial Intelligence and Machine Learning
CIS355A Business Application Programming with Lab

APPLICATION DEVELOPMENT

CIS363B Web Interface Design with Lab
CIS407A Web Application Development with Lab
WBG310 Interactive Web Page Scripting with Lab

CAREER PREPARATION

CEIS299 Careers and Technology
CEIS499 Preparation for the Profession
MGMT404 Project Management
TECH460 Senior Project

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405 Career Development
COLL148 Critical Thinking and Problem Solving

This icon indicates Diversity, Equity & Inclusion Courses

14 for students enrolled at a New Jersey location.

1 Students enrolled at a New Jersey location take ENG108 in lieu of this course.

2 Students enrolled at a Pennsylvania location must take HUMN451 as part of this requirement.

3 Students enrolled at a Pennsylvania location.

4 Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.

5 9 for students enrolled at a Pennsylvania location.

6 Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.

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In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by the Higher Learning Commission (HLC). https://www.ncomission.org. Keller Graduate School of Management is included in this accreditation. DeVry is certified to operate by the State Council of Higher Education for Virginia. Arlington Campus: 1400 Crystal Dr., Ste. 120, Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission. https://www.tn.gov/thec. Nashville Campus: 301 S. Perimeter Park Dr., Ste. 100, Nashville, TN 37211. Programs, course requirements and availability vary by location. Some courses may be available online only. All students enrolled in site-based programs will be required to take some coursework online and, for some programs and locations, a substantial portion of the program may be required to be completed online. DeVry's academic catalog, available via https://www.devry.edu/catalog, contains the most current and detailed program information, including admission, progression and graduation requirements.

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