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:
- Computer Programmer
- Computer Systems Analyst
- Web Designer
- Web Application Developer
- Web Master
- Web Master

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

15% GROWTH
nationally from 2016-2026 for Employment of Web Developers²

2 + 8 YEARS + MONTHS
minimum length to graduation³

2-IN-1 Earn an extra credential with our unique 2-in-1 design. All courses in our Information Technology & Networking Associate degree are embedded within this program. So you can earn an associate degree on the way to your bachelor’s.

PORTABLE IoT KIT
You can simulate the Internet of Things (IoT) experience wherever you are. With our portable IoT Kit, you’ll get hands-on experience in how IoT technologies work in the real world. Your kit will include digital devices, sensors and other tools you will use to build relevant IoT 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.

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
Computer Information Systems | Web Development and Administration

ESSENTIALS

COMMUNICATION SKILLS
ENGL112 Composition
ENGL135 Advanced Composition
ENGL216 Technical Writing
SPCH275 Public Speaking

HUMANITIES
ETHC232 Ethical and Legal Issues in the Professions
LAS432 Technology, Society, and Culture

SOCIAL SCIENCES
ECON312 Principles of Economics
SOC5185 Culture and Society
SOC5325 Environmental Sociology

MATHEMATICS AND NATURAL SCIENCES
MATH114 Algebra for College Students
MATH221 Statistics for Decision-Making
PHYS204 Applied Physics with Lab

PERSONAL AND PROFESSIONAL DEVELOPMENT
CARD405 Career Development
COLL148 Critical Thinking and Problem-Solving

TECH CORE

TECH CORE
CEIS101 Introduction to Technology and Information Systems
CEIS106 Introduction to Operating Systems
CEIS110 Introduction to Programming
CEIS114 Introduction to Digital Devices
NETW190 Fundamentals of Information Technology and Networking I
NETW200 Fundamentals of Information Technology and Networking II
SEC285 Fundamentals of Information Security

PROGRAM

INFORMATION SYSTEMS AND PROGRAMMING
CEIS236 Database Systems and Programming Fundamentals
CIS170C Programming with Lab
CIS247C Object-Oriented Programming with Lab

APPLICATION DEVELOPMENT
CIS321 Structured Analysis and Design
CIS339 Object-Oriented Analysis and Design
CIS355A Business Application Programming with Lab
CIS363B Web Interface Design with Lab
CIS407A Web Application Development with Lab
WBG310 Interactive Web Page Scripting with Lab

SENIOR PROJECT
CEIS392 Product, Project, and People Management
CEIS494 Senior Project I
CEIS496 Senior Project II

TECHNOLOGY CAREER PREPARATION
CEIS299 Careers and Technology
CEIS499 Preparation for the Profession

SPECIALIZED

WEB DEVELOPMENT AND ADMINISTRATION
SEC370 Web Security
WEB320 Principles of E-Commerce
WEB375 Web Architecture with Lab
WEB460 Advanced Web Application Development with Lab

DEMONSTRATE SKILLS AT EVERY STEP

BACHELOR’S

ASSOCIATE

CERTIFICATE

60 CREDIT HOURS

120 CREDIT HOURS

EMBEDDED PROGRAMS

Want to show some credentials on your resume? With our exclusive 3-in-1 design, you can earn two additional credentials while acquiring your Web Development and Administration 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.

1 Students enrolled at a New Jersey location take ENGL108 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 Nevada location must take POLI332 in lieu of this requirement.

visit DeVry.edu | Call 888.DeVry.04

In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC). www.hlcommission.org. Keller Graduate School of Management is included in this accreditation. DeVry University 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, www.tn.gov/thec. Nashville Campus: 3343 Perimeter Hill Dr., 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 devry.edu/catalogs, contains the most current and detailed program information, including admission, progression and graduation requirements. Information contained herein is effective as of date of publishing. ©2020 DeVry Educational Development Corp. All rights reserved. Version 9/24/20