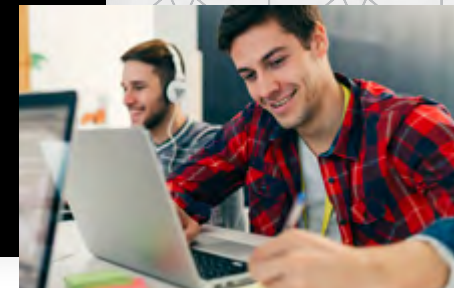


COMPUTER INFORMATION SYSTEMS

Specialization: Web Development and Administration



ABOUT THIS DEGREE PROGRAM

TECH CORE 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 Designers²

2 + 8
YEARS MONTHS
minimum length to graduation³

**THREE
IN
ONE**

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.

**IoT
PROJECTS**

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.

UP TO \$300

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.

**DIVERSITY,
EQUITY &
INCLUSION**

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

² <https://www.bls.gov/ooh/computer-and-information-technology/web-developers.htm>. Growth projected on a national level. Local growth will vary by location by 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>.

Computer Information Systems | Web Development and Administration

ESSENTIALS

47
CREDIT HOURS


COMMUNICATION SKILLS¹

ENGL112 ²	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing


Select one

SPCH275	Public Speaking
SPCH276	Intercultural Communication 


HUMANITIES^{3,4}

LAS432	Technology, Society, and Culture 
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Select one

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

SOCIAL SCIENCES

ECON312	Principles of Economics
SOCS185	Culture and Society 

Select one

SOCS325 ⁵	Environmental Sociology
SOCS350	Cultural Diversity in the Professions 

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

 This icon indicates Diversity, Equity & Inclusion Courses

¹14 for students enrolled at a New Jersey location.

²Students enrolled at a New Jersey location take ENGL108 in lieu of this course.

³Students enrolled at a Pennsylvania location must take HUMN451 as part of this requirement.

⁴9 for students enrolled at a Pennsylvania location.

⁵Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.

TECH CORE

21
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

40
CREDIT HOURS

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

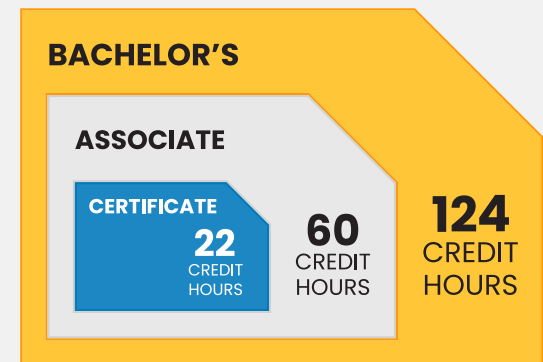
SPECIALIZED

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



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.

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