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 Application Developer
• Web Designer
• 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 graduation

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

2 + 8 YEARS MONTHS
minimum length to graduation

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.

“"My professors have been awesome. They are patient and really explain the material and are willing to work with students if they need assistance.”"

- Katherine G., 2016 DeVry Graduate, Computer Information Systems

1. [27] 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/degree-programs.html.
Bachelor’s Degree Program
Computer Information Systems | Web Development and Administration

**ESSENTIALS**

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<th>Category</th>
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| Communication Skills              | ENGL111  Composition
                                             ENGL135  Advanced Composition
                                             ENGL216  Technical Writing
                                             SPC217  Public Speaking |
| Humanities                        | ETHC232  Ethical and Legal Issues in the Professions
                                             LAS432  Technology, Society, and Culture |
| Social Sciences                   | ECON312  Principles of Economics
                                             SOCS185  Culture and Society
                                             SOCS325  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**

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| 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**

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| Information Systems and Programming | CEIS236  Database Systems and Programming Fundamentals
                                             CISI570  Programming with Lab
                                             CISI270  Object-Oriented Programming with Lab |
| Application Development           | CISI291  Structured Analysis and Design
                                             CISI339  Object-Oriented Analysis and Design
                                             CISI355  Business Application Programming with Lab
                                             CISI363  Web Interface Design with Lab
                                             CISI470  Web Application Development with Lab
                                             WBG310  Interactive Web Page Scripting with Lab |
| Senior Project                    | CEIS392  Product, Project, and People Management
                                             CEIS491  Senior Project I
                                             CEIS490  Senior Project II |
| Technology Career Preparation     | CEIS299  Careers and Technology
                                             CEIS499  Preparation for the Profession |

**SPECIALIZED**

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| Web Development and Administration | SEC370  Web Security
                                             WEB320  Principles of E-Commerce
                                             WEB375  Web Architecture with Lab
                                             WEB460  Advanced Web Application Development with Lab |

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.