COMPUTER INFORMATION SYSTEMS

Specialization: Web Development and Administration



ABOUT THIS DEGREE PROGRAM

TECH

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 <u>Computer Information Systems</u> degree program with a specialization in Web Development <u>and Administration</u> 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 graduation

16[%]

nationally from 2022-2032 for Employment of Web Developers and Digital Designers¹

SKILLS FOCUSED

SKILL FOCUSED CURRICULUM

Elements of our technology curriculum help prepare you to pursue certification opportunities that can validate your knowledge and skills.

- CompTIA Linux+
- CompTIA Network+

- CompTIA Security+
- . .
- CompTIA Project+
- CompTIA Cloud Essentials+
- PCEP Certified Entry-Level Python Programmer



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.



ACCELERATE ON YOUR SCHEDULE

Choose the schedule that best fits your goals and commitments. You can earn your **Bachelor's Degree** in as little as **2 years 8 months**.

Or, follow a normal schedule and complete your program in 4 years.

*Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 12-19 credit hours a semester per 12-month period.

**Normal completion time includes breaks and assumes 2 semesters of enrollment in 12-19 credit hours per semester per 12-month-period.



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ESSENTIALS

CREDIT HOURS

COMMUNICATION SKILLS¹

ENGL135 Advanced Composition ENGL216 Technical Writing

Select one

SPCH275 Public Speaking

SPCH276 Intercultural Communication ®

HUMANITIES

LAS432 Technology, Society, and Culture 🕏

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

SOCS325³ Environmental Sociology

SOCS350 Cultural Diversity in the Professions ®

MATHEMATICS AND NATURAL SCIENCES

MATH114	Algebra for	Callege	Studente
MAI UTT4	Algebraior	College	Student:

TECH204 Everyday Physics

TECH221 Data-Driven Decision - Making

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405 Career Development

COLL148 Critical Thinking and Problem Solving

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 course options – denoted by this icon – highlight relevant topics to help empower you to promote an inclusive workplace.

TECH CORE

21

TECH CORE		CREDIT HOURS
CEIS101	Introduction to Technology and Info	rmation
	Systems	
CEIS106	Introduction to Operating Systems	
CEIS110	Introduction to Programming	
CEIS114	Introduction to Digital Devices	
NETW191	Fundamentals of Information Techn	ology
	and Networking	
NETW212	Introduction to Cloud Computing	
SEC285	Fundamentals of Information Secur	ity

PROGRAM

40 CREDIT HOURS

INFORMATION SYSTEMS AND PROGRAMMING

CEIS150	Programming with Objects	
CEIS209	Intermediate Programming	
CEIS236	Database Systems and Programming	
	Fundamentals	

AI-Driven Business Application Coding

CIS313 AI-Driven Business Application Coding
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

CEIS298	Introduction to	Technical Pro	ject Management

CEIS499 Preparation for the Profession

MGMT404 Project Management

TECH460 Senior Project

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 Nevada location must take POL1332 in lieu of this requirement.

Students enrolled at a New Jersey location must take an additional six semester-credit hours of general education coursework from among the following course areas: communication skills, humanities, social sciences, mathematics and natural sciences. Courses selected in humanities or social sciences should be upper-division coursework (DeVry courses numbered 300-499).

SPECIALIZED

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 Undergraduate Certificate Program and Information Technology and Networking Associate Degree Program are embedded within this program.* So you can earn a certificate and an associate degree on the way to your bachelor's degree.

*The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements. Future programmatic changes could impact the ability to earn additional credentials en route to an eligible degree program. Refer to the academic catalog for details.





