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 develop online games so they work on PCs, tablets and smartphones. You’ll also learn to about a variety of game development topics, including basic game design, layout and controls.

IS THIS PROGRAM FOR YOU?
Want to pursue a career in computer information systems and interested in learning how to build a game from scratch using web-based technologies? Then this program may be a good fit for you.

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

- Back-end Java Programmer
- Software Developer
- Mobile Game Programmer
- HTLM5 Game Developer

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
- Create web-based games
- Utilize OO strategies to design games
- Deploy advanced web techniques
- Design online game

QUICK FACTS

124 CREDIT HOURS
minimum credit hours required for graduation

25% GROWTH
nationally from 2021-2031 for Employment of Software Developers

A FOUNDATION IN TECHNOLOGY

SPECIALIZED
- Create web-based games
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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 Cloud+
- PCEP Certified Entry-Level Python Programmer
- CompTIA Security+
- CompTIA Project+

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 AT YOUR PACE
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.

1 https://www.bls.gov/ooh/computer-and-information-technology/software-developers.htm?view_full. Growth projected on a national level. Local growth will vary by location. BLS projections are not specific to DeVry University students or graduates and may include earners at all stages of their career and not just entry level.
Bachelor's Degree Program | Tech - Software and Information Systems

Computer Information Systems | Web Game Programming

ESSENTIALS

**COMMUNICATION SKILLS**
- ENGL112 Composition
- ENGL135 Advanced Composition
- ENGL216 Technical Writing

*Select one*
- SPCH275 Public Speaking
- SPCH276 Intercultural Communication

**HUMANITIES**
- LAS432 Technology, Society, and Culture
- ETHC323 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 Environmental Sociology
- SOCS350 Cultural Diversity in the Professions

**MATHEMATICS AND NATURAL SCIENCES**
- MATH114 Algebra for College Students
- PHYS204 Applied Physics with Lab
- TECH221 Data-Driven Decision-Making

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

**SPECIALIZED**

**WEB GAME PROGRAMMING**
- WBG340 Programming Multimedia for the Web with Lab
- WBG370 Game Development with Lab
- WBG410 Dynamic Website Development and Database Integration with Lab
- WGD235 Web Animation

**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
- NETW191 Fundamentals of Information Technology and Networking
- NETW212 Introduction to 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
- 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 Project Management
- CEIS499 Preparation for the Profession
- MGMT404 Project Management
- TECH460 Senior Project

14 for students enrolled at a New Jersey location

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

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

Program availability varies by location. In site-based programs, students will be required to take a substantial amount of coursework online to complete their program.