

SOFTWARE DEVELOPMENT

Specialization: Web and Mobile Application Development



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

Develop your skills and techniques for producing effective websites, website navigational models and responsive website content. You'll also learn about developing software, from consumer apps to mobile enterprise solutions, in addition to how cross platform operating systems can be addressed and how wearables, IoT and smart devices can be incorporated into applications.

IS THIS PROGRAM FOR YOU?

Do you want to be part of creating online and mobile device user experiences? If so, this program may be a good fit for you.

CAREER OPPORTUNITIES

Graduates of DeVry's Software Development degree program with a specialization in Web and Mobile Application Development may consider, but are not limited to, the following careers:

- Software Developer - Web Portals & e-Commerce Applications
- Mobile Device Software Developer
- Software Application Developer
- Software Systems Developer
- Web Program Analyst 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

- Design web distributed systems
- Develop applications
- Analyze and design software systems
- Product life cycle management

SPECIALIZED

- Design web-based applications
- Develop responsive multiplatform applications
- Utilize software engineering practices in web application development
- Design mobile device applications

QUICK FACTS

120
CREDIT HOURS
minimum credit hours required for graduation

25%
GROWTH
nationally from 2022-2032 for Employment of Software Developers, Quality Assurance Analysts and Testers¹



SKILL FOCUSED CURRICULUM

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

- CompTIA Cloud+
- CompTIA Network+
- CompTIA Security+
- CompTIA Linux+
- 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.

MINIMUM COMPLETION TIME*

2 years 8 months

NORMAL COMPLETION TIME**

4 years



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.

*Per 12-month period, assumes completion of 3 semesters, enrollment in 12-18 credit hours per semester and continuous, full-time year-round enrollment with no breaks.

**Per 12-month period, assumes completion of 2 semesters and full-time enrollment in 12-18 credit hours per semester.

¹<https://www.bls.gov/ooh/computer-and-information-technology/software-developers.htm>. Growth projected on a national level. Local growth may vary. 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.

Software Development | Web and Mobile Application Development

ESSENTIALS

51
CREDIT HOURS

COMMUNICATION SKILLS

ENGL112	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing

Select one

SPCH275	Public Speaking
SPCH276	Intercultural Communication ☼

HUMANITIES

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	Environmental Sociology
SOCS350	Cultural Diversity in the Professions ☼

MATHEMATICS AND NATURAL SCIENCES

MATH114	Algebra for College Students
MATH234	Discrete Math in Information Technology
PHYS204	Applied Physics with Lab
TECH221	Data-Driven Decision -Making

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405	Career Development
COLL148	Critical Thinking and Problem-Solving

☼ This icon indicates Diversity, Equity & Inclusion Courses

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
NETW212	Introduction to Cloud Computing
SEC285	Fundamentals of Information Security

PROGRAM

37
CREDIT HOURS

INFORMATION SYSTEMS AND PROGRAMMING

CEIS150	Programming with Objects
CEIS209	Intermediate Programming
CEIS236	Database Systems and Programming Fundamentals
CIS355A	Business Application Programming with Lab

ANALYSIS AND DESIGN

BIAM110	Introduction to Business Analytics
CIS313	AI-Driven Business Application Coding
TECH408	Applied AI for Management and Technology

CAREER PREPARATION

CEIS298	Introduction to Technical Project Management
CEIS499	Preparation for the Profession
MGMT404	Project Management
TECH460	Senior Project

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 highlight relevant topics to help empower you to promote an inclusive workplace.



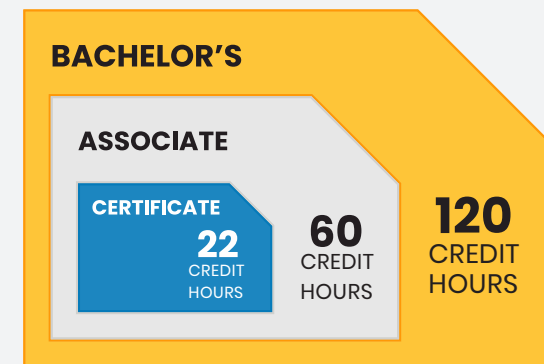
SPECIALIZED

11
CREDIT HOURS

WEB AND MOBILE APPLICATION DEVELOPMENT

CEIS320	Introduction to Mobile Device Programming
CIS363B	Web Interface Design with Lab
CIS407A	Web Application Development with Lab

Demonstrate Skills at Every Step



EMBEDDED PROGRAMS

Want to know how to earn two additional credentials with our unique 3-in-1 design? All courses in our Programming Essentials certificate and Information Technology and Networking associate degree are ingrained within this program. So you can earn a certificate and an associate degree on the way to your online Mobile App Development bachelor's degree.

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