BACHELOR’S DEGREE PROGRAM | TECH - SOFTWARE AND INFORMATION SYSTEMS

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

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 Testers.

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.

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.
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Software Development | Web and Mobile Application Development

### 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

**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

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### 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
- 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

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### Specialized Web and Mobile Application Development

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

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### Demonstrate Skills at Every Step

**Bachelor’s**
- **Associate Certificate**
- **22 Credit Hours**
- **60 Credit Hours**
- **120 Credit Hours**

**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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### 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.

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