

SOFTWARE DEVELOPMENT



ABOUT THIS DEGREE PROGRAM

TECH CORE

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

With this program, you'll not only be armed with the Tech Core experience, but you'll also be exposed to a variety of concepts that can help guide your specialization choice in Big Data and Analytics, Software Design and Programming, and Web and Mobile Application Development.

IS THIS PROGRAM FOR YOU?

Interested in a career in software development but not sure where to focus? With this program, you'll be become familiarized with methods for improving software design and application product development to help guide your degree specialization choice.

CAREER OPPORTUNITIES

Graduates of DeVry's Software Development degree program may consider, but are not limited to, the following careers:

- Software Application Developer
- Software Systems 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

QUICK FACTS

120
CREDIT HOURS
minimum credit hours
required for graduation



THE SMART WAY TO BE UNDECIDED

With our undecided model, you'll be exposed to three different specializations and be better armed to choose your path.¹

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 Cloud Essentials+
- CompTIA Linux+
- CompTIA Network+
- CompTIA Project+
- CompTIA Security+



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 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 12-18 credit hours a semester per 12-month period.

** Normal completion time includes breaks and assumes 2 semesters of enrollment in 12-18 credit hours per semester per 12-month period.

¹ Must declare a specialization by 60 credit hours for bachelor's degree program.

Software Development

ESSENTIALS

51
CREDIT HOURS

COMMUNICATION SKILLS

ENGL112	Composition
ENGL135	Advanced Composition
ENGL216	Technical Writing
SPCH275	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
MATH234	Discrete Math in Information Technology
TECH204	Everyday Physics
TECH221	Data-Driven Decision -Making

PERSONAL AND PROFESSIONAL DEVELOPMENT

CARD405	Career Development
COLL148	Critical Thinking and Problem-Solving

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
CEIS295	Data Structures and Algorithms
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

SPECIALIZED

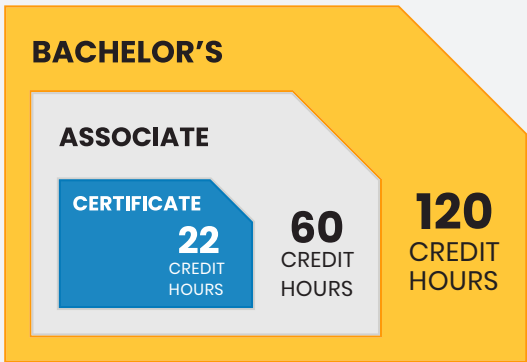
11-13
CREDIT HOURS

Students who have not chosen an area of specialization may begin the program in “Undecided” status; however, they must select a specialization by the time they have earned 60 semester credit hours toward their degree.

Available specializations are:

- Big Data and Analytics
- Software Design and Programming
- Web and Mobile Application Development

Demonstrate Skills at Every Step



EMBEDDED PROGRAMS

Acquire an additional two credentials with our unique 3-in-1 design. Courses in our Programming Essentials certificate and Information Technology and Networking associate degree are inserted within our online Software Development degree program.* So you can earn a certificate and an associate degree on the way to your bachelor's degree.

*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. The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements.

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