

Software Development



About this degree program

AI infused technology foundations

This program offers technology courses that build interdisciplinary skills for today's AI-driven digital world. Learners gain hands-on experience with devices, computing, networks, cloud services and security while exploring the integration and automation that power the Internet of Things. The curriculum emphasizes responsible and ethical workplace practices, adaptability to emerging innovations, and immersive applications of AI and machine learning across industry.

Is this program for you?

If you are interested in exploring how AI, coding and web development fuse together to solve real-world problems, this program is for you. This certificate gives you hands-on experience using programming languages, databases and software design helping you launch a career in software development or advance your skills.

A program to fuel your future

Our Undergraduate Certificate in Software Development offers a streamlined, career-focused pathway to acquire essential AI, coding, security and software knowledge and skills. Curriculum provides hands-on experience with core programming languages, tools, and methodologies. Customize your program to explore your interest choosing from the following specialization options as you prepare to pursue your career goals:

- General Option: Tailor the program to your interests and/or apply prior college credit or applicable military experience.
- Application Development : Create and maintain applications that support specific business functions and processes
- Software Engineering and Design: Build, test and maintain software products to meet user needs

Career opportunities

Graduates of DeVry's [Software Development certificate program](#) may consider, but are not limited to entry-level opportunities in such positions as:

- AI application analyst
- AI solutions specialist
- Application developer
- Programmer analyst
- Software developer
- Software QA analyst
- Web developer
- Web program analyst

Quick facts

36
Credit hours

minimum credit hours
required for graduation

15%
Growth

nationally from 2024-2034 for employment
of software developers, quality assurance
analysts, and testers¹

Certification exam aligned curriculum

Coursework in this program helps you prepare to pursue exams for industry-recognized certifications such as:

- CompTIA AI Essentials
- CompTIA TECH+
- LPI Linux Essentials
- Python Institute – Certified Associate Python Programmer (PCAP)
- Python Institute – Certified Entry-Level Python Programmer (PCEP)

Learn on your schedule

Minimum completion time¹

12 months



OR

Normal completion time²

1 year 4 months



Choose the schedule that best fits your goals and commitments. You can earn your **undergraduate certificate** in as little as **12 months**. Or, follow a normal schedule and complete your program in **1 year and 4 months**.

¹Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 12 credit hours a semester per 12-month period.

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

Program courses

Mathematics

MATH111	Integrated Math I
MATH121	Integrated Math II

Technology foundations

TECH101	Technology Fundamentals
TECH110	Coding and Scripting
TECH112	AI in Industry

Program focus

SIS110	Operating Systems Basics
SIS150	Fundamentals of Programming
SIS230	Relational Databases
SIS240	Web Programming

Specialization

Specialized

Select one specialization from the options below:

General option

Select applicable courses from the College of Engineering and Information Science provided prerequisites are met.

Application development

SEC270	Secure Cyber Coding
SIS180	Introduction to Machine Learning and Artificial Intelligence

One of:

SIS250	General Application Programming
SIS320	Business Application Programming

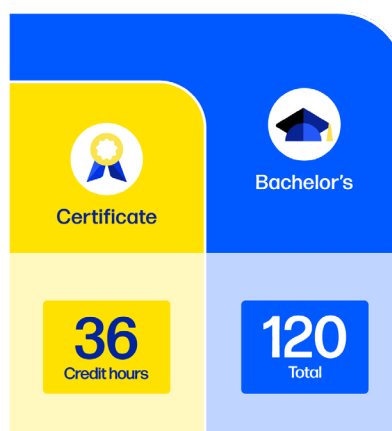
Software design and engineering

SIS260	Algorithms and Data Structures
SIS360	Full Stack Development
SIS400	Software Engineering

What you'll learn

- Leverage AI tools to develop, write, debug, optimize and secure code more efficiently
- Utilize modern computer programming language to implement computer-based information system solutions.
- Write programs that enable information to be stored, processed and communicated in meaningful ways to end users.
- Identify and correct data, syntax, and programming logic errors.
- Design applications considering usability, accessibility, and cross-device compatibility

Earn a credential at every stop



How do credentials stack up?

Once you earn our Software Development Certificate you may choose to continue your education on your schedule at DeVry by applying eligible credit toward the Bachelor's degree in Software Development³.

³The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements. At the time of application to the next credential level, an evaluation of qualifying credits will occur and the most beneficial outcome will be applied. Future programmatic changes could impact the application of credits to a future program. Refer to the academic catalog for details.