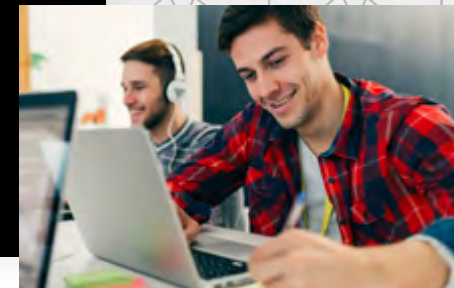# SOFTWARE DESIGN AND SOLUTIONS

ABOUT THIS PROGRAM

IS THIS PROGRAM FOR YOU?

Are you interested in how software is designed and operated? Or how to test and design software for all types of devices? In this certificate program, students will be exposed to the complete software development life cycle and have the opportunity to contribute to it.

A PROGRAM TO FUEL YOUR FUTURE

Engage in course material exploring topics like data structures and algorithms, and software engineering to help prepare you to work on various types of software system. Learn the skills needed to program software using industry recognized programming languages like Python. Learning these two programming languages will help prepare you to learn new languages during the course of your career.

CAREER OPPORTUNITIES

Graduates of DeVry's Software Design and Solutions certificate program may consider, but are not limited to, entry level opportunities in positions, such as:

- Software Applications Developer
- Mobile App Developer

QUICK FACTS

42
CREDIT HOURS
minimum credit hours required for graduation

14
COURSES

1 + 4
YEAR   MONTHS
minimum length for graduation[1]

TECH CORE

ANCHORED IN TECH CORE

Prepare to be immersed in coursework designed to help you build interdisciplinary skills you'll need for today's Internet of Things (IoT) economy. Project work and activities allow you to develop relevant skills in:

- Digital Devices
- Coding
- Operating Systems

IoT PROJECTS

WORK WITH IOT TECHNOLOGIES & SYSTEMS

Immerse yourself in the Internet of Things (IoT) world and obtain hands-on experience with IoT, cloud, software and security technologies and systems.

SKILLS FOCUSED

CERTIFICATION EXAM ALIGNED CURRICULUM

Experience elements of our technology curriculum focused on real-world industry standards and prepare for certification opportunities that help validate your knowledge and skills.

- CompTIA IT Fundamentals
- CompTIA Linux+
- PCEP – Certified Entry-Level Python Programmer

EVERY COURSE COUNTS

EVERY COURSE COUNTS

Make the most of your Software Design and Solutions Certificate from DeVry by applying qualifying credits toward a bachelor's degree at DeVry. This certificate stacks into our Bachelor's Degree in Software Development with a specialization in Software Design and Programming and our Bachelor's Degree in Computer Information Systems with a specialization in Software Programming.

🛡 **DeVry University**

Software Design and Solutions

PROGRAM COURSES

MATHEMATICS

MATH114   Algebra for College Students

TECH CORE

CEIS101C   Introduction to Technology and Information Systems
CEIS106   Introduction to Operating Systems
CEIS110   Introduction to Programming

INFORMATION SYSTEMS AND PROGRAMMING

CEIS150   Programming with Objects
CEIS209   Intermediate Programming
CEIS236   Database Systems and Programming Fundamentals

APPLICATION DEVELOPMENT

CEIS295   Data Structures and Algorithms

SOFTWARE DEVELOPMENT

CEIS200   Software Engineering I
CEIS320   Introduction to Mobile Device Programming
CEIS400   Software Engineering II
CEIS420   Programming Languages and Advanced Techniques

CAREER PREPARATION

CEIS299   Careers and Technology
CEIS499   Preparation for the Profession

WHAT YOU'LL LEARN

ESSENTIALS

- Solve complex problems
- Analyze numerical data

TECH CORE

- Network, secure and deploy digital devices and sensors in the IoT ecosystem
- Script and write components of an application or program
- Install and configure operating systems using Command Line Interface (CLI)
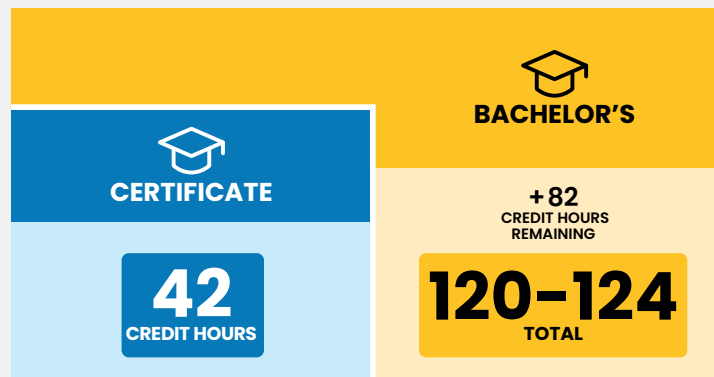
PROGRAM

- Implement well-defined procedures in code
- Program and manage large data systems
- Solve technical problems using an algorithmic approach and basic programming and coding methods

SPECIALIZED

- Design and develop applications
- Utilize software engineering practices in application development
- Utilize advance programming techniques for application development

Earn a credential at every step.

CERTIFICATE

42 CREDIT HOURS

BACHELOR'S

+82 CREDIT HOURS REMAINING

120-124 TOTAL

HOW DO CREDENTIALS STACK?

The Software Design and Solutions certificate can serve as a steppingstone to our Software Development bachelor's degree with a specialization in Software Design and Programming or our Computer Information Systems bachelor's degree with a specialization in Software Programming. If you choose to continue on with your education, all credits apply to your bachelor's degree. Build your confidence – and your resume – when you start your journey at DeVry[1].

[1]The figures displayed represent the minimum credit hours required for graduation. At the time of application to the next credential level, an evaluation of qualifying transfer credit will occur and the most beneficial outcome will be applied.

visit DeVry.edu | Call 888.DeVry.04

DeVry University