

SOFTWARE DESIGN AND SOLUTIONS



ABOUT THIS PROGRAM

IS THIS PROGRAM FOR ME?

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 and C++. 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 graduation¹

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 KIT

IOT KIT²

You can simulate the Internet of Things (IoT) experience wherever you are. Get hands-on experience using digital devices, sensors and cloud-based tools to build relevant IoT 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+
- Microsoft Technical Associate – Python



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.

¹ Not including breaks. Assumes year-round, full-time enrollment. Additional program information may be found at <https://www.devry.edu/online-programs.html>.

² The IoT Kit is a required expense and is not complimentary.

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

CIS170C Programming with Lab

CIS247C Object-Oriented Programming with Lab

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
- Scripting and writing components of an application or program
- Install and configure operating systems using Command Line Interface (CLI)

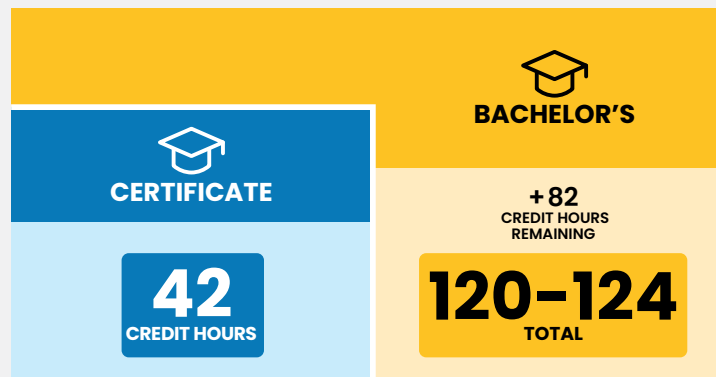
PROGRAM

- 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.



¹The 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.

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 DeVry¹.

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In New York, DeVry University operates as DeVry College of New York. DeVry University is accredited by The Higher Learning Commission (HLC), www.hlcommission.org. Keller Graduate School of Management is included in this accreditation. DeVry is certified to operate by the State Council of Higher Education for Virginia. Arlington Campus: 1400 Crystal Dr., Ste. 120, Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission, www.tn.gov/thec. Nashville Campus: 3343 Perimeter Hill Dr., Nashville, TN 37211. Unresolved complaints may be reported to the Illinois Board of Higher Education through the online complaint system <http://complaints.ibhe.org/> or by mail to 1 N. Old State Capitol Plaza, Ste. 333, Springfield, IL 62701-1377. Program availability varies by location. In site-based programs, students will be required to take a substantial amount of coursework online to complete their program. ©2020 DeVry Educational Development Corp. All rights reserved. 12/16/20