UNDERGRADUATE CERTIFICATE | TECH

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

OUICK FACTS

42 **CREDIT HOURS** minimum credit hours required for graduation

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



TECH

CORE

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.

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.

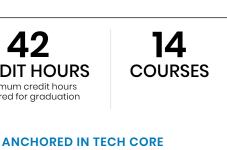
- CompTIA IT Fundamentals CompTIA Linux+
- PCEP Certified Entry-Level Python Programmer

EVERY COURSE COUNTS

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.











Undergraduate Certificate | Tech 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.



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.

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.

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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), https://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 <u>Inenessee Higher Education Commission</u>, https://www.tng.wythtee. Nashville Campus: 3015. Perimeter Park Dr., Ste. 100, Nashville, TN 37211. Programs, course requirements and availability vary by location. Some courses may be available online only. All students enrolled in site-based programs will be required to take some coursework online and, for some programs and locations, a substantial portion of the program may be required to notine. DeVry's academic catalog, available via <u>https://www.devry.edu/catalogs</u>, contains the most. Current and detailed program information, including admission, progression and graduation requirements. Information contained herein is effective as of date of publishing. ©2021 DeVry Educational Development Corp. All rights reserved. Version 8/21/2021

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