UNDERGRADUATE CERTIFICATE | TECH

SOFTWARE DESIGN AND SOLUTIONS

ABOUT THIS PROGRAM



ANCHORED IN TECH CORE

Coding

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

Operating Systems

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 <u>Software Design and Solutions certificate program</u> may consider, but are not limited to, entry level opportunities in positions, such as:

- Software Applications Developer
- Mobile App Developer

QUICK FACTS







SKILLS

FOCUSED

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



ACCELERATE ON YOUR SCHEDULE

Choose the schedule that best fits your goals and commitments. You can earn your **Undergraduate Certificate** in as little as **1 year 4 months**.

Or, follow a normal schedule and complete your program in 2 years.

* Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 8-12 credit hours a semester per 12-month period. ** Normal completion time includes breaks and assumes 2 semesters of enrollment in 8-12 credit hours per semester per 12-month period.

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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

- CEIS200Software Engineering ICEIS320Introduction to Mobile Device ProgrammingCEIS400Software Engineering II
- CEIS400 Software Engineering II CEIS420 Programming Languages and Advanced Techniques

CAREER PREPARATION

CEIS298 Introduction to Technical Project Management 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)

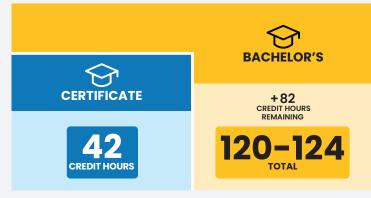
PROGRAM

- · 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 program can serve as a steppingstone to our Software Development bachelor's degree program with a specialization in Software Design and Programming or our Computer Information Systems bachelor's degree program 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.**

*The 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 transfer 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.

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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. The University's 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 2202. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission, www.tn.gov/thec. Lisle Campus: 4225 Naperville Rd., Ste. 400, Lisle, IL 60532. Unresolved complaints may be reported to the Illinois Board of Higher Education through the online compliant system https://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. ©2024 DeVry Educational Development Corp. All rights reserved. Version 5/20/2024

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