

# INFORMATION TECHNOLOGY (IT) ESSENTIALS



## ABOUT THIS PROGRAM



### 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:

- Programming
- Hardware
- Connectivity
- Operating Systems

### IS THIS PROGRAM FOR YOU?

If you are looking to earn IT essential knowledge and skills, receive the necessary prep to pursue popular IT certifications and quickly add a credential to your resume, this certificate may be a good fit for you.

### A PROGRAM TO FUEL YOUR FUTURE

Prepare to learn the fundamental skills necessary to contribute in an entry-level IT role.

## CAREER OPPORTUNITIES

Graduates of DeVry's Information Technology (IT) Essentials certificate program may consider, but are not limited to, the following careers:

*Entry level opportunities in such positions as:*

- Computer Network Support Specialist
- IT Help Desk Support
- Entry Level Network System Administrator
- Computer Systems Analyst

## QUICK FACTS

**23**  
CREDIT HOURS  
minimum credit hours  
required for graduation

**8**  
COURSES

**\$2,400**

### TECH ESSENTIALS GRANT

With the Tech Essentials Grant, DeVry University offers qualifying students a \$2,400 grant toward the cost of your IT Essentials Certificate program at the successful completion of your program.<sup>1</sup>

**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 A+
- CompTIA Linux+
- CompTIA Cloud Essentials+
- CompTIA Network+
- PCEP – Certified Entry-Level Python Programmer

**MINIMUM  
COMPLETION TIME\***

**8 months**

OR

**NORMAL  
COMPLETION TIME\*\***

**1 year  
2 months**

### ACCELERATE ON YOUR SCHEDULE

Choose the schedule that best fits your goals and commitments. You can earn your **Undergraduate Certificate** in as little as **8 months**.

Or, follow a normal schedule and complete your program in 1 year 2 months.

\* Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 4-13 credit hours a semester per 12-month period.

\*\* Normal completion time includes breaks and assumes 2 semesters of enrollment in 4-13 credit hours per semester per 12-month period.

<sup>1</sup> The Tech Essentials Grant will be awarded upon completion of the IT Essentials Certificate program. The grant will be applied to your student account. If a credit is generated, funds may be sent to you unless you have borrowed loans as funding would then be returned to your lender.

## Information Technology (IT) Essentials

### PROGRAM OUTLINE

#### MATHEMATICS

MATH114 Algebra for College Students

#### TECH CORE

CEIS101C Introduction to Technology and Information Systems  
CEIS106 Introduction to Operating Systems  
CEIS110 Introduction to Programming  
CEIS114 Introduction Digital Devices  
NETW191 Fundamentals of Information Technology & Networking  
NETW212 Introduction to Cloud Computing

#### CAREER PREPARATION

CEIS297 Technology Career Foundations

### WHAT YOU'LL LEARN

#### MATHEMATICS

- Analyze data
- Solve problems

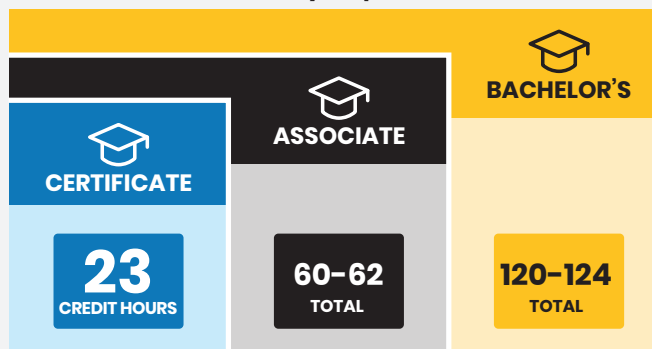
#### TECH CORE

- Illustrate the basics of computing and explain the value of data and troubleshooting
- Install and configure operating systems using Command Line Interface (CLI)
- Solve technical problems using an algorithmic approach and basic programming and coding methods
- Network, secure, and deploy digital devices and sensors into the IoT of things ecosystem
- Produce, secure, operate and troubleshoot small enterprise networks
- Troubleshoot and secure cloud-based IT systems
- Explore the fundamentals of cloud-based systems
- Utilize security technology and tools to mitigate cybersecurity threats

#### CAREER PREPARATION

- Apply principles of technology in the building, testing, operation and maintenance of connected and distributed digital-based systems and networks

### Earn a credential at every step.



### HOW DO CREDENTIALS STACK?

**Here's an example:** When you earn a Information Technology (IT) Essentials Undergraduate Certificate, eligible courses in the program apply to your Associate Degree in Information Technology, Associate in Engineering Technology or Associate in Cybersecurity and Networking. When you complete the associate, eligible courses apply to a relevant bachelor's degree program in that field of study. Build your confidence – and your resume – when you start your journey at DeVry<sup>2</sup>.

<sup>2</sup>The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements. t 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. Future programmatic changes could impact the application of credits to a future program. Refer to the academic catalog for details.

RECOMMENDED PLAN OF STUDY

DeVry’s IT Essentials Certificate program is designed to prepare you with the knowledge and skills needed to pursue up to 5 external industry-specific certifications\* within 8 months, should you choose to seek professional certification or licensure exams. Our recommended course sequencing fosters the development of these skills early on and throughout the entire program.

SEMESTER 1

COURSE	CREDITS
CEIS101C	2
MATH114	4
TOTAL	6

8 WEEKS  
2 MONTHS

SEMESTER 2

COURSE	CREDITS
CEIS106	4
CEIS110	3
TOTAL	7

8 WEEKS  
2 MONTHS

TOTAL:

23 CREDIT HOURS

2 SEMESTERS

8 MONTHS MINIMUM

0-4 MONTHS

ALIGNED CERTIFICATIONS

CompTIA IT Fundamentals| CompTIA Linux+| Certified Entry Level Python Programmer

- Illustrate the basics of computing and explain the value of data and troubleshooting
- Investigate how to configure a network using the Linux operating system
- Use Python programming to build apps and application frameworks

5-8 MONTHS

ALIGNED CERTIFICATIONS

CompTIA Network+| CompTIA Cloud Essentials+

- Network, secure, and deploy digital devices and sensors into the internet of things ecosystem
- Produce, secure, operate and troubleshoot a small enterprise networks
- Troubleshoot and secure cloud-based IT systems

\*Credits and degrees earned from DeVry do not automatically qualify the holder to participate in professional certification or licensure exams. DeVry does not pay or reimburse students enrolled in this program for the cost associated with these external certifications and does not guarantee students will successfully pass such exams.

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