ABOUT THIS DEGREE PROGRAM

A FOUNDATION IN TECHNOLOGY
This program is anchored with Tech Core, curriculum designed to help you build a foundation of interdisciplinary skills you’ll need for today’s Internet of Things (IoT) economy. You’ll learn relevant skills in operating systems, programming, hardware, connectivity and security – giving you a hands-on foundation in engineering technology, information technology and software and information systems.

A PROGRAM TO FUEL YOUR FUTURE
Get hands-on experience working with devices that sense, communicate and control systems found in personal devices, homes, offices, commercial environments and everywhere in between. You’ll also explore networking configuration, programming techniques for network devices and information security considerations for mobile and IoT devices.

IS THIS PROGRAM FOR YOU?
Interested in a career in information technology (IT) connecting people and devices to one another through the Internet? This specialization, focused on mobile and networked devices, may be the right fit for you.

CAREER OPPORTUNITIES
Graduates of DeVry’s Information Technology and Networking degree program with a specialization in Mobile and Networked Devices may consider, but are not limited to, the following careers:
- Computer Network Support Specialist
- Computer Systems Analyst
- Information Systems Analysts
- Mobile and Wireless Device Technologist
- Mobile Device Administrator
- Network and Computer Systems Administrator

WHAT YOU’LL LEARN

ESSENTIALS
- Communicate methods and findings
- Collaborate in a dynamic work environment
- Solve complex problems
- Analyze numerical data
- Apply appropriate technologies

TECH CORE
- Produce, secure, operate and troubleshoot small enterprise networks
- Network, secure and deploy digital devices and sensors into the IoT ecosystem
- Solve technical problems using an algorithmic approach and basic programming and coding methods
- Install and configure operating systems using Command Line Interface (CLI)

PROGRAM
- Develop applications in an IDE framework
- Design LANs and VLANs
- Understand architecture and design
- Understand operation, regulation and trends

SPECIALIZED
- Analyze big data and wireless connectivity
- Program and connect network devices
- Examine and Analyze IoT systems
- Identify and mitigate risks
- Design mobile device applications

QUICK FACTS

120 CREDIT HOURS
minimum credit hours required for graduation

SKILL FOCUSED CURRICULUM
Elements of our technology curriculum help prepare you to pursue certification opportunities that can validate your knowledge and skills.

- CompTIA Linux+
- CompTIA Network+
- CompTIA Cloud+
- CompTIA Project+
- CompTIA Security+
- PCEP - Certified Entry-level Python Programmer

CERTIFICATION EXAM REIMBURSEMENT
We reimburse qualified students up to $300 for the cost of one industry certification exam attempt across a wide range of fields.

ACCELERATE AT YOUR PACE
Choose the schedule that best fits your goals and commitments. You can earn your Bachelor’s Degree in as little as 2 years 8 months.

2 years
8 months

OR

4 years

*Per 12-month period, assumes completion of 3 semesters, enrollment in 12-19 credit hours per semester and continuous, full-time year-round enrollment with no breaks.
**Per 12-month period, assumes completion of 2 semesters and full-time enrollment in 12-19 credit hours per semester.
# Bachelor's Degree Program | Tech - Information Technology
## Information Technology & Networking | Mobile and Networked Devices

### ESSENTIALS

**COMMUNICATION SKILLS**
- ENGL112 Composition
- ENGL135 Advanced Composition
- ENGL216 Technical Writing
- **Select one**
  - SPCH275 Public Speaking
  - SPCH276 Intercultural Communication

**HUMANITIES**
- LAS432 Technology, Society, and Culture
- **Select one**
  - ETHC232 Ethical and Legal Issues in the Professions
  - ETHC334 Diversity, Equity and Inclusion in the Workplace

**SOCIAL SCIENCES**
- ECOS312 Principles of Economics
- SOCS185 Culture and Society
- **Select one**
  - SOCS325 Environmental Sociology
  - SOCS350 Cultural Diversity in the Professions

**MATHEMATICS AND NATURAL SCIENCES**
- MATH114 Algebra for College Students
- MATH221 Statistics for Decision-Making
- MATH234 Discrete Math in Information Technology
- PHYS204 Applied Physics with Lab

**PERSONAL AND PROFESSIONAL DEVELOPMENT**
- CARD405 Career Development
- COLL148 Critical Thinking and Problem-Solving

### TECH CORE

**TECH CORE**
- CEIS101 Introduction to Technology and Information Systems
- CEIS106 Introduction to Operating Systems
- CEIS110 Introduction to Programming
- CEIS114 Introduction to Digital Devices
- NETW191 Fundamentals of Information Technology and Networking
- NETW211 Fundamentals of Cloud Computing
- SEC285 Fundamentals of Information Systems Security

### PROGRAM

**INFORMATION SYSTEMS AND PROGRAMMING**
- CEIS150 Programming with Objects
- CEIS236 Database Systems and Programming Fundamentals
- CEIS312 Introduction to Artificial Intelligence and Machine Learning

**NETWORK SYSTEMS ADMINISTRATION**
- MGMT408 Management of Technology Resources
- NETW260 Intermediate Information Technology and Networking I
- NETW270 Intermediate Information Technology and Networking II
- NETW310 Wired, Optical and Wireless Communications with Lab
- NETW404 Data Center Virtualization

**CAREER PREPARATION**
- CEIS298 Introduction to Technical Project Management
- CEIS499 Preparation for the Profession
- MGMT404 Project Management
- TECH460 Senior Project

### SPECIALIZED

**MOBILE AND NETWORKED DEVICES**
- CEIS490 Ecosystem of the Internet of Things
- ECT286 Automation and Control
- ECT315 Industrial IoT
- NETW411 Information Security and Mobile Devices

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**DEMONSTRATE SKILLS AT EVERY STEP**

**BACHELOR’S**

**ASSOCIATE**

**CERTIFICATE**

**EMBEDDED PROGRAMS**

Earn two additional credentials with our unique 3-in-1 design. All courses in our Networking Essentials certificate and Information Technology and Networking associate degree are embedded within this program. So you can earn a certificate and an associate degree on the way to your bachelor’s degree.