BACHELOR’S DEGREE PROGRAM | TECH - INFORMATION TECHNOLOGY

INFORMATION TECHNOLOGY & NETWORKING
Specialization: Mobile and Networked Devices

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 Security+
- CompTIA Project+
- 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.

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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.

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

DeVry University
Bachelor's Degree Program | Tech - Information Technology

**Information Technology & Networking | Mobile and Networked Devices**

### ESSENTIALS

| CREDIT HOURS | 51
| --- | ---
| COMMUNICATION SKILLS |  
ENG112 Composition  
ENG135 Advanced Composition  
ENG216 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 |  
ECON312 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  
MATH234 Discrete Math in Information Technology  
PHYS204 Applied Physics with Lab  
TECH221 Data-Driven Decision-Making |
| PERSONAL AND PROFESSIONAL DEVELOPMENT |  
CARD405 Critical Thinking and Problem-Solving  
COLL148  |

**BE AN ACTIVE PART OF AN INCLUSIVE FUTURE**

Customize your curriculum by choosing Diversity, Equity and Inclusion (DE&I) course alternates for your Communication Skills, Humanities and Social Science courses. These course options – denoted by this icon – highlight relevant topics to help empower you to promote an inclusive workplace.

### TECH CORE

| CREDIT HOURS | 21
| --- | ---
| 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  
NETW212 Introduction to Cloud Computing  
SEC285 Fundamentals of Information Systems Security |

### TECH CORE

| CREDIT HOURS | 36
| --- | ---
| INFORMATION SYSTEMS AND PROGRAMMING |  
CEIS150 Programming with Objects  
CEIS236 Database Systems and Programming Fundamentals  
SEC313 Applied AI for Cybersecurity  |

### NETWORK SYSTEMS ADMINISTRATION

| CREDIT HOURS |  
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  
TECH408 Applied AI for Management and Technology  |

### CAREER PREPARATION

| CREDIT HOURS |  
CEIS298 Introduction to Technical Project Management  
CEIS499 Preparation for the Profession  
MGMT404 Project Management  
TECH460 Senior Project  |

### SPECIALIZED

| CREDIT HOURS | 13
| --- | ---
| MOBILE AND NETWORKED DEVICES |  
CEIS490 Ecosystem of the Internet of Things  
ECT286 Automation and Control  
ECT315 Industrial IoT  
NETW411 Information Security and Mobile Devices  |

### PROGRAM

| CREDIT HOURS |  
DEMONSTRATE SKILLS AT EVERY STEP  
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. |

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