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

Learn protocols and techniques necessary to develop and maintain a database management system. You’ll also learn about different databases work from the perspective of security, performance, availability and cost and how a variety of databases can be managed together.

IS THIS PROGRAM FOR YOU?

Want to pursue a career in computer information systems and focus on big data? In this program, you’ll focus on databases, database administration, and data privacy and security.

CAREER OPPORTUNITIES

Graduates of DeVry’s Computer Information Systems degree program with a specialization in Database Management may consider, but are not limited to, the following careers:

• Computer Programmer
• Computer Systems Analyst
• Database Administrator
• Database Analyst
• Data Security Administrator

WHAT YOU’LL LEARN

ESSENTIALS

• Communicate methods and findings
• Collaborate in dynamic work environments
• 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

• Use advanced programming techniques
• Develop applications
• Analyze and design software systems
• Develop web-based interfaces and designs

SPECIALIZED

• Mine and analyze data
• Program and manage large data systems
• Utilize SQL and advanced practices
• Develop standards, policies and procedures

QUICK FACTS

124 CREDIT HOURS

Minimum credit hours required for graduation

9% GROWTH

Nationally from 2021-2031 for Employment of Database Administrators¹

BACHELOR’S DEGREE PROGRAM | TECH - SOFTWARE AND INFORMATION SYSTEMS
COMPUTER INFORMATION SYSTEMS
Specialization: Database Management

BLS projections are not specific to DeVry University students or graduates and may include earners at all stages of their career and not just entry level.

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.

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.
Bachelor’s Degree Program | Tech - Software and Information Systems

Computer Information Systems | Database Management

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
ECON312 Principles of Economics
SOC5185 Culture and Society

Select one
SOC5325 Environmental Sociology
SOC5350 Cultural Diversity in the Professions

MATHEMATICS AND NATURAL SCIENCES
MATH114 Algebra for College Students
MATH221 Statistics for Decision Making
PHYS204 Applied Physics with Lab

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

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

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 Security

PROGRAM

INFORMATION SYSTEMS AND PROGRAMMING
CEIS150 Programming with Objects
CEIS209 Intermediate Programming
CEIS236 Database Systems and Programming Fundamentals
CEIS312 Introduction to Artificial Intelligence and Machine Learning
CIS355A Business Application Programming with Lab

APPLICATION DEVELOPMENT
CIS363B Web Interface Design with Lab
CIS407A Web Application Development with Lab
WBG310 Interactive Web Page Scripting with Lab

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

SPECIALIZED

DATABASE MANAGEMENT
BIAM410 Database Concepts in Business Intelligence
DBM438 Database Administration with Lab
DBM449 Advanced Topics in Database with Lab
SEC305 Cybersecurity and Data Privacy

Demonstrate Skills at Every Step

EMBEDDED PROGRAMS
Earn two additional credentials with our unique 3-in-1 design. All courses in our Programming 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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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 accredited by the State Council of Higher Education for Virginia. Arlington Campus: 1440 Crystal Dr., Ste. 120, Arlington, VA 22202. DeVry University is authorized for operation as a postsecondary educational institution by the Tennessee Higher Education Commission, www.tn.gov/thec. Naperville Campus: 1200 E. Diehl Rd., Naperville, IL 60563. Unresolved complaints may be reported to the Illinois Board of Higher Education through the online complaint system http://complaints.ilheu.org/ or by mail to 5 N. 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. ©2023 DeVry Educational Development Corp. All rights reserved. Version 7/25/2023