BACHELOR’S DEGREE PROGRAM | TECH - SOFTWARE AND INFORMATION SYSTEMS

COMPUTER INFORMATION SYSTEMS
Specialization: Database Management

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 Administrators

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+
• PCEP Certified Entry
• CompTIA Security+
• CompTIA Project+

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.

12 months period, assumes completion of 3 semesters, enrollment in 12-19 credit hours per semester and continuous, full-time year-round enrollment with no breaks.

2 years 8 months

NORMAL COMPLETION TIME

4 years

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.

1https://www.bls.gov/ooh/computer-and-information-technology/database-administrators.htm Growth projected on a national level. Local growth will vary by location. 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.
Bachelor's Degree Program | Tech - Software and Information Systems

Computer Information Systems | Database Management

ESSENTIALS

COMMUNICATION SKILLS1
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
SOCS185 Culture and Society @

Select one
SOCS325 Environmental Sociology
SOCS350 Cultural Diversity in the Professions @

MATHEMATICS AND NATURAL SCIENCES
MATH114 Algebra for College Students
PHYS204 Applied Physics with Lab
TECH221 Data-Driven Decision-Making

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

Program: 40 Credit Hours

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 Security

SPECIALIZED

DATABASE MANAGEMENT
BIAM300 Managerial Applications of Business Analytics
BIAM410 Database Concepts in Business Intelligence
DBM438 Database Administration with Lab
SEC305 Cybersecurity and Data Privacy

DEMONSTRATE SKILLS AT EVERY STEP

14 for students enrolled at a New Jersey location
1Students enrolled at a New Jersey location take ENGL108 in lieu of this course.
3Students enrolled at a Nevada location must take POLI332 in lieu of this requirement.

Students enrolled at a New Jersey location must take an additional six-semester-unit of general education coursework from among the following course areas: communication skills, humanities, social sciences, mathematics and natural sciences. Courses selected in humanities or social sciences should be upper-division coursework (DeVry courses numbered 300-499).

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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 22202. 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 complaint system https://complaints.hbe.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. ©2023 DeVry Educational Development Corp. All rights reserved. Version 10/10/2023