# COMPUTER INFORMATION SYSTEMS

Specialization: Database Management



# **ABOUT THIS DEGREE PROGRAM**

# **TECH**

## 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
- Database Analyst
- Computer Systems Analyst
   Data Security
- · Database Administrator
- 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

# **OUICK FACTS**

minimum credit hours required for graduation

for Employment of Database Administrators and Architects1

# **SKILLS FOCUSED**

## 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 Security+

CompTIA Network+

- CompTIA Project+
- CompTIA Cloud Essentials+
- 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 ON YOUR SCHEDULE**

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.

\*Minimum completion time does not include breaks and assumes 3 semesters of year-round, full-time enrollment in 12-19 credit hours a semester per 12-month period.

\*\*Normal completion time includes breaks and assumes 2 semesters of enrollment in 12-19 credit hours per semester per 12-month-period.



# Computer Information Systems | Database Management

# **ESSENTIALS**

47
CREDIT HOURS

# COMMUNICATION SKILLS<sup>1</sup>

ENGL112 <sup>2</sup>	Composition
LINULIIZ	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<sup>3</sup> Environmental Sociology

SOCS350 Cultural Diversity in the Professions ®

## MATHEMATICS AND NATURAL SCIENCES

MATH114 Algebra for College Students

TECH204 Everyday Physics

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**

**TECH CORE** 

CREDIT HOURS

# 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

# **PROGRAM**

40 CREDIT HOURS —

## INFORMATION SYSTEMS AND PROGRAMMING

CEIS150	Programming with Objects
CEIS209	Intermediate Programming

CEIS236 Database Systems and Programming

**Fundamentals** 

CIS313 AI-Driven Business Application Coding
CIS355A Business Application Programming with Lab

#### APPLICATION DEVELOPMENT

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

<sup>1</sup>14 for students enrolled at a New Jersey location

<sup>2</sup>Students enrolled at a New Jersey location take ENGL108 in lieu of this course.
<sup>3</sup>Students enrolled at a Nevada location must take POL1332 in lieu of this requirement.

Students enrolled at a New Jersey location must take an additional six semester-credit hours 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).

# **SPECIALIZED**

16 CREDIT HOURS

## **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**



## **EMBEDDED PROGRAMS**

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

\*The figures displayed represent the minimum credit hours required for graduation. Additional coursework may be necessary to complete program requirements. Future programmatic changes could impact the ability to earn additional credentials en route to an eligible degree program. Refer to the academic catalog for details.

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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.th.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 compliant system https://complaints.ibhe.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. ©2024 DeVry Educational Development Corp. All rights reserved. Version 5/13/2024

