UNDERGRADUATE CERTIFICATE | TECH

DATA MINING AND ANALYTICS

ABOUT THIS PROGRAM

TECH CORE

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.

IS THIS PROGRAM FOR YOU?

If you are interested in data and how to use models to make data-driven decisions, then this is the certificate program for you. Learn how to build, verify and test data models and how analytics plays a role throughout all aspects of business today.

A PROGRAM TO FUEL YOUR FUTURE

We live in a data-driven world. It's all around us in everything we do. Prepare for a career in a data-focused field. Dive into databases using SQL and use Python coding to generate analytical results in this Data Mining and Analytics certificate program.

CAREER OPPORTUNITIES

Graduates of DeVry's Data Mining & Analytics certificate program may consider, but are not limited to, entry level opportunities in positions, such as:

- Software Applications Developer
- Software Developer Data Analyst
- Data Modeler
- Data Miner

QUICK FACTS

43
CREDIT HOURS
minimum credit hours required for graduation

14
COURSES

SKILLS FOCUSED

CERTIFICATION EXAM ALIGNED CURRICULUM

Experience elements of our technology curriculum focused on real-world industry standards and prepare for certification opportunities that help validate your knowledge and skills.

- CompTIA IT Fundamentals
- CompTIA Linux+
- PCEP – Certified Entry-Level Python Programmer

MINIMUM COMPLETION TIME*	OR	NORMAL COMPLETION TIME**
1 years 4 months		2 years

ACCELERATE AT YOUR PACE

Choose the schedule that best fits your goals and commitments. You can earn your **Undergraduate Certificate** in as little as **1 years 4 months**.

Or, follow a normal schedule and complete your program in 2 years.

*Per 12-month period, assumes completion of 3 semesters, enrollment in 8-13 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 8-13 credit hours per semester.

DeVry University

Undergraduate Certificate | Tech

Data Mining and Analytics

PROGRAM COURSES

MATHEMATICS

MATH114	Algebra for College Students
TECH221	Data-Driven Decision-Making

TECH CORE

CEIS101C	Introduction to Technology and Information Systems
CEIS106	Introduction to Operating Systems
CEIS110	Introduction to Programming

CODING AND PROGRAMMING

CEIS150	Programming with Objects
CEIS236	Database Systems and Programming Fundamentals
CIS313	AI-Driven Business Application Coding

DATA AND ANALYSIS

BIAM300	Managerial Applications of Business Analytics
CEIS340	Database Management
CEIS480	Data Mining and Analytics
CEIS485	Data Interpretation and Statistical Analysis

CAREER PREPARATION

CEIS298	Introduction to Technical Project Management
CEIS499	Preparation for the Profession

WHAT YOU'LL LEARN

ESSENTIALS

- Solve complex problems
- Analyze numerical data

TECH CORE

- Network, secure and deploy digital devices and sensors in the IoT ecosystem
- Script and write components of an application or program
- Install and configure operating systems using Command Line Interface (CLI)

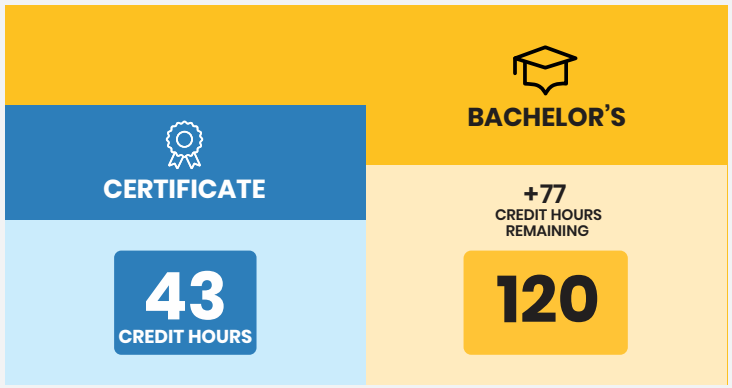
PROGRAM

- Teach systems to learn without being explicitly programmed
- Program and manage large data systems
- Solve technical problems using an algorithmic approach and basic programming and coding methods

SPECIALIZED

- Acquire, retrieve and store data
- Mine and analyze data
- Use advanced techniques to analyze data

Earn a Credential at Every Step



HOW DO CREDENTIALS STACK?

The Data Mining and Analytics certificate can serve as a steppingstone to our Software Development bachelor's degree when you specialize in Big Data and Analytics. If you choose to continue on with your education, all credits apply to your bachelor's degree. Build your confidence – and your resume – when you start your journey at DeVry[1].

[1]The figures displayed represent the minimum credit hours required for graduation. At the time of application to the next credential level, an evaluation of qualifying transfer credit will occur and the most beneficial outcome will be applied.

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