

DEGREES & CERTIFICATES

DATA ANALYTICS CERTIFICATE OF ACHIEVEMENT (CA)

About the Program

The Certificate of Achievement in Data Analytics will provide students with a solid foundation in the fields of data analytics, business intelligence analysis, or data science. The purpose of this certificate is to prepare students for entry-level positions or to help advance into careers in data collection, data processing, data analysis and to provide a foundation for future training in data science and big data analysis. Students will learn how to make business decisions based upon the analysis of large amounts of data. Students will learn about processing, integrating, modeling, mining, and analytics related to Big Data. Students will use frameworks, tools, services, and programming languages to analyze data. Courses will integrate Google Data Analyst Professional Career Certificate content, giving students the ability to achieve an important industry certification.

Program Goals and Objectives

The goal of the Data Analytics Certificate of Achievement is to prepare students for entry-level jobs, or to help them advance into careers, such as Business Intelligence Analysts, Data Analysts, Big Data or Data Technologist. Program Goals 1. Develop in depth understanding of the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling, and statistics. 2. Practice problem analysis and decision-making. 3. Gain practical, hands-on experience with statistics programming languages and big data tools through coursework and applied research experiences. 4. Solve business problems and make business decisions with information systems and analytics tools and technologies 5. Effectively communicate the results of analytic solutions to business problems and decisions

Career Opportunities

Big data analytics is used by a broad range of industries including banking, communications, healthcare, government and transportation. Career Opportunities include, but are not limited to, Business Intelligence Analysts, Data Analysts, Big Data Technologist.

Learning and Career Pathway Maps

[View LPC Program Map](#)

Required Core: (13 Units)

CIS 10 Business Data Analytics.....	3
CIS 11 Data Visualization Tools.....	3
CIS 9002 Introduction to Database Management.....	3
CIS 54 Excel: Introduction to Spreadsheets.....	4

List A: Select One (3 Units)

BUSN 55 Business Mathematics.....	3
CIS 7 Introduction to Programming Concepts and Methodologies.....	3
CIS 60 Systems Analysis and Design.....	3
CIS 81B Database Essentials in the Cloud.....	3
CS 7 Introduction to Computer Programming Concepts.....	3