

# CERTIFICATE IN DATA ANALYTICS

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## Department of Mathematics and Statistics

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### Certificate Description

This certificate is an interdisciplinary collaboration between the Colleges of Business, BCLASSE, and STEM. It gives students the opportunity to learn and apply skills necessary to analyze large data sets and use predictive analytics to gain insight into data. Interest in data analytics is growing and this certificate allows YSU to offer an option to students looking to gain knowledge and experience in this in-demand field.

Data analysis is an integral component in modern business decision-making processes. The certificate program offers students training in essential skills in data analytics. It comprises the following three courses:

1. Data Management
2. Data Visualization
3. Predictive Modeling

### Admission Requirements

Undergraduate degree with overall GPA of 2.7 or higher.

COURSE	TITLE	S.H.
DATX 5801	Data Management	3
DATX 5803	Data Visualization	3
DATX 5805 or CSCI 6951	Predictive Modeling Algorithms Data Science and Machine Learning	3

The pre-requisite for DATX courses is junior standing and GPA of 2.5 or higher.

Students who successfully complete this program should be able to:

- manipulate and prepare a large data set for analysis through common techniques to clean data and identify trends and outliers;
- manage a large data set through database management and build an effective database application;
- describe and apply the common techniques used in data analytics and choose an appropriate technique to model and make predictions on a dataset.