

# CERTIFICATE IN DATA ANALYTICS

---

## Department of Mathematics and Statistics

Dr. Thomas Wakefield  
618 Lincoln Building  
(330) 941-1395  
tpwakefield@ysu.edu

### 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.

### Admission Requirements

Undergraduate degree with overall GPA of 2.7 or higher.

### Certificate Requirements

COURSE	TITLE	S.H.
DATX 5801	Data Management	3
DATX 5803	Data Visualization	3
DATX 5805	Predictive Modeling Algorithms	3

### Learning Objectives

Students who successfully complete this certificate 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.