

# BIG DATA ANALYTICS (AS DEGREE S0845)

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## Business Division

### Degree S0845

The A.S. Degree in Big Data Analytics for Business is designed for returning CIS, business, marketing, and data analytics professionals with industry experience or students who have completed CIS courses. The degree offers a balanced set of classes that provides students with the knowledge and skills to obtain jobs in the areas of data science, data analysis, big data and data mining. 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.

## Required Courses

Course Prefix	Course Name	Units
CISB 11	Computer Information Systems	3.5
CISD 41	Introduction to Data Science	3.5
CISD 42	Big Data Integration and Processing	3.5
CISD 43	Big Data Modeling and Analysis	3.5
CISP 71	Programming in Python	3
CISP 71L	Programming in Python Laboratory	0.5
MATH 110	Elementary Statistics	3
or MATH 110H	Elementary Statistics - Honors	
Choose two of the following options:		3.5
CISD 21	Database Management - Microsoft SQL Server	
CISD 21L	Database Management - Microsoft SQL Server Laboratory	
or		
CISD 31	Database Management - Oracle	
CISD 31L	Database Management - Oracle Laboratory	
<b>Total Units</b>		<b>24</b>

## Program Learning Outcomes

Review Student Learning Outcomes (SLOs) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.