

# UNIVERSITY COURSES FOR THE GENERALIST CREDENTIAL

## UNIVERSITY



## PATHWAY

Data Analysis Minor

## COURSES

STAT 250  
STAT 350  
CDS 301  
STAT 463  
CYSE 101  
Elective

Introduction to Statistics I  
Introduction to Statistics II  
Scientific Information and Data Visualization  
Introduction to Exploratory Data Analysis  
Introduction to Cyber Security Engineering  
Quantitative Elective from Data Analysis Minor

> Choose One

# UNIVERSITY COURSES FOR THE SPECIALIST CREDENTIAL

## UNIVERSITY



## PATHWAY

Specialty Track – Data Analytics

## COURSES

Data Management and Governance

Choose one of the following:

CS 450	Database Concepts
CDS 302	Scientific Data and Databases
IT 214	Database Fundamentals

Data Storage

Choose one of the following:

CS 450	Database Concepts
CDS 302	Scientific Data and Databases
IT 214	Database Fundamentals

Data Quality

Choose one of the following:

CS 450	Database Concepts
CDS 302	Scientific Data and Databases
IT 214	Database Fundamentals

Data Manipulations

Choose one of the following:

CS 484	Data Mining
CDS 302	Scientific Data and Databases
IT 214	Database Fundamentals

Probability and Descriptive and Inferential Statistics

Choose one of the following:

STAT 334 or STAT 344 or STAT 346 AND STAT 350 or STAT 354 or STAT 360  
CS 484 AND CS 480  
IT 322

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## PATHWAY

Specialty Track – Data Analytics  
(Continued)

## COURSES

Data Visualization

Choose one of the following:

STAT 463	Introduction to Exploratory Data Analysis
CDS 301	Scientific Information and Data Visualization
IT 415	Information Visualization

Foundations of Systems Development Life Cycle

Choose one of the following:

CS 484	Data Mining
CDS 302	Scientific Data and Databases
IT 214	Database Fundamentals

Data Ethics

Choose one of the following:

CDS 151	Data Ethics in an Informational Society
STAT 489	Pre-Capstone Professional Development
CS 306	Synthesis of Ethics and Law for the Computing Professional
IT 304	IT in the Global Economy