

# CERTIFICATE IN DATA ANALYTICS

## Purpose:

The Certificate in Data Analytics is an undergraduate certificate program which is designed to provide education for students desiring to enter the workplace in one of the “in-demand” professional positions relating to data science. Specifically, students who successfully complete this 12 semester credit hours (SCH) certificate will gain an understanding of important data analytics techniques and skill sets necessary to function in data science/data analytics employment positions. The program is designed for both current undergraduate students enrolled at Texas A&M International University as well as a “stand-alone” certificate for non-TAMU persons.

Upon completion of this certificate program, students will be able to:

1. Write basic computer programs using the Python programming language.
2. Have a working knowledge and be able to use basic data analytics tools including MySQL, Tableau, Excel, R, Google Trends, Google Analytics, and Anaconda Python and Jupyter machine learning libraries.
3. Understand the principles and techniques of data mining and machine learning.
4. Assume positions in industry requiring knowledge and skills in data science.

## Criteria for Admission

The certificate is designed as a “stand-alone” credential and the certificate credit is also intended to be “stackable” with an undergraduate degree at Texas A&M International University. For certificate admission applicants who are current undergraduate students at Texas A&M International University, they must be in good academic standing with a cumulative grade point average of 2.0 or higher. Certificate admission applicants who are not current undergraduate students at Texas A&M International University will be granted admission on a case-by-case basis, pending an assessment of their capabilities for successfully completing the certificate program.

Students interested in pursuing the Certificate in Data Analytics must complete the appropriate form with the School of Business as soon as possible, but no less than two semesters before completion of their degree. The School of Business and the Office of the University Registrar will provide the documentation certifying the completion of the certificate.

## Criteria for Earning the Certificate

Students must complete four courses in the program with at least a “C” in each of the four courses. The only required course in the certificate program is MIS 2350, Introduction to Programming (currently using Python as the programming language). Students would have the option of completing three more courses from the five optional courses outlined in the table below. All courses are 3 semester credit hours (SCH).

## Administration of the Certificate

The Certificate in Data Analytics is administered by the A.R. Sanchez, Jr. School of Business and the Dean of the College is responsible for the oversight of the program.

For more information, contact:

- ARSSB Undergraduate Advisors

956-326-2480

ARSSB\_UG@tamiu.edu

## Criteria for Earning the Certificate

Students must complete the four courses in the program with at least a “C” in each of the four courses.

Code	Title	Semester Credit Hours
<b>Required Course</b>		<b>3</b>
MIS 2350	Introduction to Programming	
<b>Select 3 of the following Elective Courses</b>		<b>9</b>
MIS 3330	Database Design Implementation	
MIS 3360	Business Data Visualization	
MIS 4320	Data Mining and Buss Intel	
MIS 4360	Social Business Analytics	
MIS 4380	Business Decision Modeling	
<b>Total Semester Credit Hours</b>		<b>12</b>