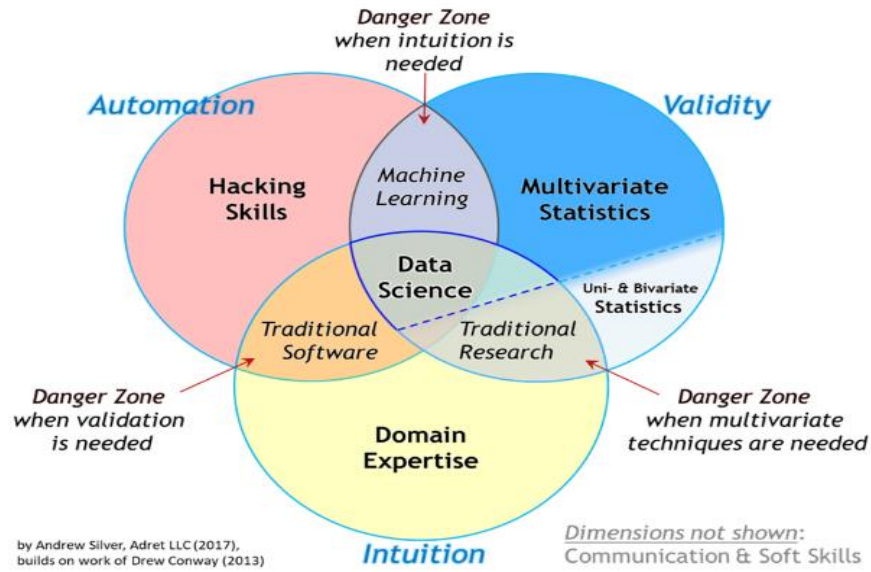# Certificate of Achievement in Data Science

The Certificate of Achievement in Data Science Essentials prepares the student for the basic skills in the highly sought-after professional careers in Data Science and Data Analytics. The courses give students exposure to skills in analyzing data for actionable insights. Students will learn to identify data-analytics problems and practice with various methodologies of producing solutions that offer the greatest benefits for various organizations, by interpreting data sets and variables. To complete the Certificate of Achievement in Data Science Essentials, students must complete all of the program course requirements.

Certificate of Achievement in Data Science Essentials: Required Course List-Total 3 courses -9 units

Course Number	Course Name	Units	Sequence
CS 101	Introduction to Computer Science	3	Yr. 1, Semester 1
CS 159	Foundation of Data Science	3	Yr. 1, Semester 1
CIS 105	Intro to Data Analytics Tools and Techniques	3	Yr. 1, Semester 1

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Certificate of Achievement in Data Science: Required Course List-Total 6 courses -18 units

Course Number	Course Name	Units	Sequence
CS 119	Programming in Python	3	Yr. 1, Semester 1
CS 192	Introduction to Cloud Computing	3	Yr. 1, Semester 1
CS 159	Foundation of Data Science	3	Yr. 1, Semester 1
CIS 193	Database Essentials in Amazon Web Services	3	Yr. 1, Semester 1
CS 121	Python Programming for Data Science and Machine Learning	3	Yr. 1, Semester 2
CIS 219	Introduction to Oracle: SQL and PL/SQL	3	Yr. 1, Semester 2