Fresno City College

Name: _____
ID: _____
Date: _____
Counselor Contact: _____

Major Requirements: 22-25 units
A grade of "C" or better is required in the following courses

CERTIFICATE OF ACHIEVEMENT (F.2800.CA)	C-ID	Units	Completed	In Progress	Planned
CIT 19, Work Experience (Cooperative) Occupation		1			
CIT 28, Client/Server Databases		3			
DS 10, Introduction to Data Science		3			
MATH/DS 21, Finite Mathematics	MATH 130	3			
PSY/MATH 42, Statistics for the Behavioral Sciences **OR** MATH 11/11H, Elementary Statistics **OR** DS 23, Business Statistics	MATH 110	3-4			
Emphasis Courses:					
DS 25, Business Analytics **AND** DS 40, Introduction to R Programming for Data Science **AND** DS 55, Visualizing Data		9			
OR					
CIT 95, Introduction to Python Programming **AND** CIT 99, Introduction to Machine Learning **AND** DS 44, Introduction to Predictive Modeling	ITIS 130	11			

Notes:

1. This certificate will provide students with experience in the field of data science including such areas as data management, data analysis, data collection, and data visualization. It is suitable for students who wish to begin work in the field, for those who wish to supplement their existing coursework with additional experiences in these data science areas, and for students who have obtained a bachelor's or other degrees in any number of analytical and scientific fields and wish to upgrade or update their skills and training.

2. Some of the above courses may have prerequisites. See the catalog or schedule of classes.

3. The *Certificate of Achievement* requires completion of the major (22-25 units) with a "C" or better grade in each course.