

ANALYTICS CERTIFICATE ONLINE

A certificate program in Analytics is intended for students with a bachelor degree who want to gain technical skills in data mining and big data analytics.

Required Courses

Course	Title	Quarter Hours
DSC 423	DATA ANALYSIS AND REGRESSION	
DSC 430	PYTHON PROGRAMMING	
DSC 441	FUNDAMENTALS OF DATA SCIENCE	
DSC 450	DATABASE PROCESSING FOR LARGE-SCALE ANALYTICS	
DSC 465	DATA VISUALIZATION	

A student in a certificate program may not use a course already taken as part of an MS program. In particular, students with an MS from CDM may not reuse, for certificate credit, any course already taken for the MS. A faculty advisor can make an appropriate substitution. A student in a certificate program may substitute a maximum of two (2) courses.

A student must earn at least C- in each of the five (5) courses and earn a cumulative GPA of at least 2.5 to receive the certificate.

Students who do not have a background in statistical inference, linear algebra and programming will be required to take up to three (3) introductory courses.

Introductory Courses

Course	Title	Quarter Hours
CSC 401	INTRODUCTION TO PROGRAMMING	4
CSC 412	TOOLS AND TECHNIQUES FOR COMPUTATIONAL ANALYSIS	4
IT 403	STATISTICS AND DATA ANALYSIS	4

Introductory courses can be waived by prior coursework, work experience or successful completion of a Graduate Assessment Examination (GAE) in the Introductory Course area.