

ANALYTICS CERTIFICATE

The 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	4
DSC 430	PYTHON PROGRAMMING	4
DSC 441	FUNDAMENTALS OF DATA SCIENCE	4
DSC 450	DATABASE PROCESSING FOR LARGE-SCALE ANALYTICS	4
DSC 465	DATA VISUALIZATION	4

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.

Admission Requirements

The Certificate Program in Analytics has the same admission requirements as the MS in Data Science. After completing the certificate, students have the option to enroll in the MS degree and all courses from the certificate can be applied there.

All applicants must have:

- Successfully completed a bachelor's degree or its equivalent from a regionally accredited institution.
- Have a minimum GPA of 3.0.
- Have completed two (2) courses in Calculus.

Choose non-degree seeking programs on the DePaul Application.