

# Education Data Analytics, Certificate

The undergraduate Certificate in Education Data Analytics requires a minimum of 18 s.h. of courses distributed across the three core components: working with data, statistics in education, and assessment and applications. Students must maintain a grade-point average of at least 2.00 in all work for the certificate. Up to 6 s.h. of transfer credit may be counted toward certificate requirements with the approval of the certificate coordinator.

The certificate may be earned by any student admitted to the University of Iowa who is not enrolled in a UI graduate or professional degree program. Undergraduate to Graduate (U2G) students may earn the certificate when the undergraduate classification is primary.

Some of the certificate courses may have prerequisites not included in the certificate requirements. Students should select courses for which they meet the prerequisites.

The Certificate in Education Data Analytics requires the following coursework.

PSQF:4220	Quantitative Research Methods in Education	3
PSQF:4257	Principles of Measurement and Evaluation in Education	3
PSQF:4740	Issues in K-12 Assessment	3
EDTL:3103	Assessment for Instructional Planning and Practice	3

## Working with Data

Course #	Title	Hours
One of these:		
PSQF:4250	Basic Principles of Education Data Analytics	3
STAT:1015	Introduction to Data Science	3
STAT:2010	Statistical Methods and Computing	3
STAT:4540	Statistical Learning	3

## Statistics in Education

Course #	Title	Hours
One of these:		
PSQF:1020	Elementary Statistics and Inference	3
PSQF:4143	Introduction to Statistical Methods	3
One of these:		
PSQF:4243	Intermediate Statistical Methods and Applications	3
STAT:3120	Probability and Statistics	4
STAT:3200	Applied Linear Regression	3

## Assessment and Applications

Course #	Title	Hours
This course:		
PSQF:2023	Testing Testing 1-2-3	3
Two of these:		
PSQF:1075	Educational Psychology and Measurement	3
PSQF:1103	Introduction to Assessment in Counseling and Behavioral Health	3
PSQF:4121	Identification of Students for Advanced Programming	3