

Data Analytics Major [BAS]

Complete all [Institutional Graduation Requirements](#). *BAS students complete 45 general education credits.*

The Bachelor of Applied Science in Data Analytics requires a minimum of 52-53 credits to complete the major. A grade of “C-” or better is required for each course counting towards the major, but a cumulative GPA of at least a 2.00 is required for completion of the major. S/U courses may not be elected for program requirements. Accuplacer (or equivalent) placement into [MATH 251](#) is required for this program.

An Associate of Applied Science or Equivalent transfer degree (90 transfer credits) is required to declare this program.

The BAS in Data Analytics is not intended to prepare students for graduate school entry.

Required Prerequisite Courses

These courses are required prerequisites for the program and must be completed prior to beginning this degree path.

These courses can be completed at EOU if they were not completed with the Associate of Applied Science transfer degree.

- [STAT 243 - Elementary Statistics*SMI](#) Credits: 4
Online students complete [STAT 243A/STAT 243B](#) in lieu of STAT 243
- [MATH 251 - Calculus I*SMI](#) Credits: 4
Online students complete [MATH 251A/MATH 251B](#) in lieu of MATH 251
- [MATH 252 - Calculus II*SMI](#) Credits: 4
- [CS 161 - Foundations Of CS I](#) Credits: 4
Online students complete [CS 161A/CS 161B](#) in lieu of CS 161
- [CS 162 - Foundations Of CS II](#) Credits: 4
- [CS 260 - Data Structures](#) Credits: 4

Required Core Mathematics/Statistics Courses: 12-13 credits

- [MATH 231 - Discrete Mathematics](#) Credits: 4
 - [MATH 341 - Linear Algebra](#) Credits: 4
- Choose one of the following required courses:*
- [STAT 327 - Statistics & Experimental Design*SMI](#) Credits: 5
 - [STAT 352 - Statistics](#) Credits: 4

Required Core Computer Science Courses: 8 credits

- [CS 318 - Algorithm Analysis](#) Credits: 4
- [CS 330 - Database Management System](#) Credits: 4
Online students complete [CS 330A/CS 330B](#) in lieu of CS 330

Data Analytics Required Courses: 32 credits

- [GEOG 201 - Introduction to GIS*SMI](#) Credits: 4
- [DAT 315 - Data Science Methods](#) Credits: 4
- [DAT 318 - Big Data Systems and Analytics](#) Credits: 4
- [DAT 407 - Capstone Seminar](#) Credits: 1-4 [*4 credits required*]
- [DAT 434 - Machine Learning](#) Credits: 4
- [STAT 435 - Statistical Computing](#) Credits: 4
- [STAT 457 - Advanced Statistical Methods](#) Credits: 4
- [DAT 465 - Data Visualization](#) Credits: 4

Total credits required for major: 52-53

Last EPCC update - October 2022

[Previous EPCC Checksheet \(January 2021 BAS creation\)](#) this checksheet is valid for winter 2022-spring 2023

Typical Curriculum

[Data Analytics \[BAS\] Typical Curriculum](#)
