

Data Analytics Major

Complete all [Institutional Graduation Requirements](#)

Data Analytics requires a minimum of 76-77 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.

Required Core Mathematics/Statistics Courses: 24-25 credits

- [MATH 231 - Discrete Mathematics](#) Credits: 4
- [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
- [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: 20 credits

- [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
- [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: 76-77

Last EPCC update - October 2022

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

Four Year Plan

[Data Analytics Typical Four Year Curriculum](#)
