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