

DATA SCIENCE MAJOR

Major Requirements

The requirements for a **major in data science** are 38-39 credits:

Code	Title	Hours
Required Courses		
MATH 121	Calculus I	4
CSC 125	Introduction to Computer Science	4
CSC 225	Fundamental Structures	4
CSC 330	Introduction to Database Management	3
DATA 200	Introduction to Data Analytics	4
DATA 470	Applied Data Project	4
Select one of the following:		3-4
MATH 205	Introduction to Statistics	
BUSN 320	Business Statistics	
PSYC 230	Statistics and Psychology Measurement	
SOC 228	Research Methods and Statistics	
12 Additional credits in Data numbered 300 and above		12
Total Hours		38-39

Degree and Graduation Requirements

In addition to the program-specific requirements listed above, all students must complete the graduation requirements specified for their degree. See the Degree and Graduation Requirements (<https://catalog.concordiacollege.edu/undergraduate-academic-community/degree-graduation-requirements/>) section for more information.

Suggested Four-Year Plan

The four-year plan detailed below is a suggested coursework sequence. This plan may need to be adapted based on course offerings as well as individual student circumstances, such as transfer credit and study away experiences.

Course	Title	Hours
First Year		
Fall		
FYS 110	Engaged Citizenship Seminar	4
COM 110 or ENG 110	Communicating to Engage or Writing to Engage	4
DATA 200	Introduction to Data Analytics	4
MATH 121	Calculus I	4
WELL 110	Engaging in Lifelong Wellness	1
Hours		17
Spring		
MATH 205 or BUSN 320	Introduction to Statistics or Business Statistics	3-4
CSC 125	Introduction to Computer Science	4
ENG 110 or COM 110	Writing to Engage or Communicating to Engage	4
World Language I		4
WELL 111	Engaging in a Balanced Life	1
Hours		16-17
Second Year		
Fall		
CSC 225	Fundamental Structures	4
DATA 317	Forecasting (or Exploration - Natural Science)	4
REL 200	Christianity and Religious Diversity	4

World Language II		4
Hours		16
Spring		
DATA 318 or DATA 316	Data Mining or Applied Statistical Models	4
CSC 330	Introduction to Database Management	3
Core Exploration - Humanities + U.S. Diversity		4
Core Exploration - Arts		4
Hours		15
Third Year		
Fall		
DATA 470	Applied Data Project	4
DATA 317	Forecasting (or Exploration - Natural Science)	4
Core Exploratin		4
Elective		4
PEAK 400	PEAK	0
Hours		16
Spring		
DATA 318 or DATA 316	Data Mining or Applied Statistical Models	4
Elective or Recommended Supporting Course		4
Elective or Recommended Supporting Course		4
Elective		4
Hours		16
Fourth Year		
Fall		
Religion 300 J Core Course + Global		4
DATA 470	Applied Data Project (or Elective)	4
Elective or Recommended Supporting Course		4
Elective or Recommended Supporting Course		4
PEAK 400	PEAK	0
Hours		16
Spring		
Elective or Recommended Supporting Course		4
Elective or Recommended Supporting Course		4
Elective		4
Elective		4
Hours		16
Total Hours		128-129