

Data Science Major BS
{Economics Track, Code: NB219E}
Curriculum Sheet
As of April 1, 2024

Foundational Courses			
Course	Credits	Notes and Prerequisites	Generally Offered *
01:198:142/01:960:142 Data 101	4	Placement into 01:740:026 (Math 026)	Fall, Spring, Summer
01:960:291 Statistical Inference for Data Science OR, 01:960:212. Statistics II, OR, 01:960:384 Intermediate Statistical Analysis, OR, 33:136:385 Statistical Methods in Business	3	Prereqs for 01:960:291 01:198:142/ 01:960:142 and 01:640:115 Prereqs for 01:960:212 01:640:115 or permission of department. Prereqs for 01:960:284 One of the following courses: 960:201, 211, 285, 379, 381 or permission of department. Prereqs for 33:136:385 01:640:135, 01:960:285.	Fall, Spring
01:198:210 Data Management for Data Science (4) OR, 01:960:295 Data Wrangling and Management with R (3) OR, 04:547:221 Fundamentals of Data Curation and Management (3)	3-4	Prereqs for 01:198:210 01:198:142/01:960:142 /01:198:111 Prereqs for 01:960:295 01:198:142/01:960:142 or Level II Statistics Prereqs for 04:547:221 04:547:202 or both 01:198:142/01:960:142 and 01:960:291	198:210 -> Fall, Spring 960:295 -> Spring 547:221 -> Fall, Spring
01:640:135/01:640:151 Calculus I	4	01:640:112 or 115 or appropriate performance on the placement test in mathematics.	Fall, Spring, Summer
01:640:250 Introductory Linear Algebra	3	Precalculus (Math 115 or 111-112) or placement into Calculus.	Fall, Spring, Summer
04:189:220 Data in Context	3	None	Fall, Spring, Summer
Credit Total	20-21		

Economics Track Courses			
Course	Credits	Notes and Prerequisites	Generally Offered *
01:640:136/152 Calculus II	4	01:640:135/151 Calculus I or placement into Calculus II	Fall, Spring, Summer

01:220:424 Machine Learning for Economics	3	01:220:320 Intermediate Microeconomic Analysis AND, 01:220:321 Intermediate Macroeconomic Analysis AND , 01:220:322 Econometrics AND 01:640:136/152 Calculus II	Spring
01:220:422 Advanced Cross-Sectional and Panel Econometrics OR 01:220:423 Advanced Time Series and Financial Econometrics	3	Prereqs for 01:220:422 01:220:320, 321, and 322, and 01:640:136 or 152. Open to students doing honors research and others with special permission. Prereqs for 01:220:423 01:220:320, 321, and 322, AND 01:640:136 or 152. Open to students doing honors research and others with special permission.	220:422 -> Fall 220:423 Spring
04:547:321 Information Visualization	3	04:547:201 Information Technology Fundamentals (for ITI students) OR (01:198:142/01:960:142 Data 101 AND 01:960:291 Statistical Inference for Data Science)	Fall, Spring, Summer
01:220:102 Introduction to Microeconomics	3	01:640:111, or 115, or calculus placement.	Fall, Spring, Summer
01:220:103 Introduction to Macroeconomics	3	01:640:111, or 115, or calculus placement.	Fall, Spring, Summer
01:220:320 Intermediate Microeconomic Analysis	3	01:220:102; 01:640:135 or 151	Fall, Spring, Summer
01:220:321 Intermediate Macroeconomic Analysis	3	01:220:102, 103; 01:640:135 or 151.	Fall, Spring, Summer
01:220:322 Econometrics	3	01:220:102, 103; 01:960:211 or 285 or equivalent; 01:640:135 or 151.	Fall, Spring, Summer
01:220:421 Economic Forecasting and Big Data	3	01:220:320, 321, and 322.	Fall, Spring, Summer
Credit Total	31		

*Please note that the respective departments can change the semester(s) in which the course(s) are offered. Students must confirm the same with the individual departments.