

Data Science Major BA
{Societal Impact Track, Code: NB219O}
Curriculum Sheet

[Students pursuing a BA in Data Science must take a minor.]
As of April 2, 2025

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		

Societal Impact Track Courses			
Course	Credits	Notes and Prerequisites	Generally Offered *

04:547:201 Information Technology Fundamentals	3	189:103 Introduction to IT & Informatics (some sections open only to ITI majors).	Fall, Spring, Summer
04:189:103 Information Technology and Informatics	3	None	Fall, Spring, Summer
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
01:960:463 Regression Methods **	3	01:960:212 Statistics II or, 01:960:291 Statistical Inference for Data Science or, 01:960:384 Intrmd Stat Analysis or, 01:960:401 Basic Statistics for Research or, 01:960:484 Basic Applied Statistics	Fall, Spring, Summer
01:960:486 Applied Statistical Learning	3	01:960:212 Statistics II or, 01:960:291 Statistical Inference for Data Science or, 01:960:384 Intrmd Stat Analysis or, 01:960:401 Basic Statistics for Research or, 01:960:484 Basic Applied Statistics (Formerly known as Computing and Graphics in Applied Statistics)	Fall, Spring
Choose 1: 01:960:365 Introduction to Bayesian Data Analysis OR 01:960:467 Applied Multivariate Analysis OR 01:960:490 Introduction to Experimental Design OR Approved Domain Course ***	3	Prereqs for 01:960:365 01:960:212 Statistics II or, 01:960:291 Statistical Inference for Data Science or, 01:960:384 Intrmd Stat Analysis or, 01:960:401 Basic Statistics for Research or, 01:960:484 Basic Applied Statistics Prereqs for 01:960:467 01:960:212 Statistics II or, 01:960:291 Statistical Inference for Data Science or, 01:960:384 Intrmd Stat Analysis or, 01:960:401 Basic Statistics for Research or, 01:960:484 Basic Applied Statistics or permission of department. Prereqs for 01:960:490 01:960:212 Statistics II or, 01:960:291 Statistical Inference for Data Science or, 01:960:384 Intrmd Stat Analysis or, 01:960:401 Basic Statistics for Research or, 01:960:484 Basic Applied Statistics	960:365 -> Fall 960:467 -> Spring 960:490 -> Spring
Credit Total	18		

* 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.

** 04:547:321 Information Visualization and 01:960:463 Regression Methods are required for the Societal Impact track (R3) but **CANNOT** be counted as domain courses. Students pursuing this track must choose a different course to fulfill the domain course requirement (R2).

Subject to change. Please check with the Data Science Undergraduate Program directors/ advisors at datascience@rutgers.edu

*** Refer to the individual departments' websites to see when the updated approved domain courses are scheduled and to confirm their prerequisites. Students **cannot** use the same Data Science course to fulfill two separate requirements.

If a domain course is also listed as a foundational or a track course requirement, students must select a different approved domain course.