

Data Science and Analytic Storytelling (MS)

This plan was made under the assumption that a student is beginning coursework in the **Fall** semester and plans to pursue courses **full-time**. A total of **30 credit hours** is required to graduate from the program, divided into "**Data Science Core**" (18 cr), "**Analytic Storytelling**" (6 cr), and the "**Electives**" (6 cr). Other combinations of coursework are available for students beginning in the Fall semester, full-time!

FALL - Semester 1

A Term:

- PDAT 610G: Introduction to Data Science (3 cr)* **B Term:**

- PDAT 611G: Big Data Management (3 cr) **Full Semester:**

- STAT 530G: Applied Statistical Methods I (3 cr)

SUMMER - Semester 3

8-Week Session:

- PDAT 617G: Python for Data Science (3 cr)

SPRING - Semester 2

A Term

- PDAT 613G: Data Mining (3 cr)

B Term:

- PDAT 615G: Machine Learning (3 cr)

Full Semester:

- PDAT 625G: Big Data Ethics and Security (3 cr)

FALL - Semester 4

A Term

- PDAT 622G: Narrative, Argument, and Persuasion in Data Science (3 cr)

B Term:

- PDAT 624G: Principles of Design in Data Visualization (3 cr)**

SPRING - Semester 5

A Term:

- PDAT 630G: Data Science and Analytic Storytelling Thesis (3 cr)

NOTES:

- "A Term" and "B Term" courses are 8-weeks. Full-semester courses are 16-weeks.
- (*) Prior to enrolling in the first data science course (PDAT 610G), students must have completed the equivalent to **CS 170** (Intro to Computer Science) and **STAT 190** (Basic Statistics).
 - Students who have taken the equivalent to STAT 220 (Fundamentals of Data Science),
 STAT 250 (Statistical Computing), and other undergraduate courses in Data
 Science may be allowed to substitute another graduate course in the place of PDAT 610G.
- (**) Students who have taken the equivalent to **STAT 320** (Data Visualization) may be allowed to substitute another graduate course in place of **PDAT 624G** (Principles of Design in Data Visualization).

Graduate Program Director: Please contact the Center for Academic Excellence (advise@truman.edu) with any updates to the plan above. Updated 9-19-2024