



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!*

*Please note, this program runs on an **A Term** and **B Term** schedule. The **A Term** typically begins the week prior to full-semester and 1st block classes.*

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 5

A Term:

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

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