Sample Plan

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 **part-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). This plan allows students to take one course at a time.*

FALL - Semester 1

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

B Term:
- PDAT 611G: Big Data Management (3 cr)

SPRING - Semester 2

A Term:
- PDAT 613G: Data Mining (3 cr)

B Term:
- PDAT 615G: Machine Learning (3 cr)

SUMMER - Semester 3

8-Week Session:
- PDAT 617G: Python for Data Science (3 cr) **OR** PDAT 620G: Data Science Capstone (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 625G: Big Data Ethics and Security (3 cr)

B Term:
- PDAT 620G: Data Science Capstone (3 cr) OR PDAT 626: Practicum in Data Storytelling (3 cr)

SUMMER - Semester 6

8-Week Session:
- 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