

Assignment 2: Data Science CSCI/ERTH/ITWS (15% written and 5% presentation of overall credit score)

**Due: Presented during week 6 & 7 (10/08 and 10/15)**

**Write up due October 7th, 2025 by 11pm ET.**

**Presentation Slides Due: October 8th, 2025 by 11am EST.**

Submission method: LMS (write up and presentation slides)

Please use the following file naming for electronic submission:

DataScience\_Assignment2\_YOUR\_NAME.ext

Late submission policy: first time – no penalty, otherwise 20% of score deducted each late day.

Note: Your report and presentation for this assignment should be the result of your own individual work. Take care to avoid plagiarism (“copying”), including all web resources, texts, and class presentations. You may discuss the problems with other students, but do not take written notes during these discussions, and do not share your written solutions.

### **General assignment:**

Choose a **ONE** plan (either plan A or B from Assignment 1, not both) and collect the data.

NOTE: data analysis is NOT required for this assignment but may be performed.

Document the data collection process and present the data that you collected in addition to a writeup using the questions below.

The weighting score for each question is included below. Please use the question numbering (1, 2, 3 and a, b, etc.) below for your written assignment response.

1. Report on your data management practical **experience** (not the plan but the practice) from the data collection exercise using a minimum of 3-4 sentences (for each item) (7%)
  - a). The goal (what it was driven by), and the mode(s) of collection
  - b). How data was really acquired, any problems, lessons learned, etc., converted.
  - c). Physical and logical organization of data/ metadata, success, failures.

- d). Metadata and documentation collected/ stored, what provenance was identified.
- e). A link to the data/ metadata (or a copy of it).

2. Describe your experience in how well (or not) the data management **plan** turned out in practice using a minimum 2-3 sentences. 6% (6000-Level students)/ 8% (4000-Level, students)

- a). Highlight what worked and what did not and why (minimum 2-3 sentences for 4-5 categories of items in your plan (max). You do not need to cover all 9 areas)
- b). What would you do differently next time and why?
- c). Were there effects on the data or metadata collected, its quality, etc.?

3. 6000-Level student question: related to Q 1 and Q 2. 2%

- a). What standards (data format, metadata, etc.) did you use (whether planned or not) and/or what ones couldn't you use and why? Minimum 2-3 sentences.
- b). What standards/ conventions would have been helpful ('none' is not an acceptable answer), i.e. what area? Minimum 1 sentence.
- c). Were you aware of a best practice for the type of collection you carried out? Did you use it? If not, why not? – describe details. Minimum 1-2 sentences.

4. Oral presentation of the data collection and management in practice (5%). Your grade will be assessed by giving the presentation to demonstrate that you collected the data and how you followed (or modified) your data management plan. Please submit your presentation (ppt, pdf or similar using the same naming scheme noted above).

Guidelines:

- a). ~ 5 mins (MAX 😊)
- b). 5-6 slides MAXIMUM
- c). What you should present:

- i. The goal (what it was driven by), and the mode of collection
- ii. How data was acquired, any problems, lessons learned, etc.
- iii. Physical and logical organization of data/ metadata, success, failures
- iv. Other 'data management' aspects that you deem important
- v. Metadata and documentation collected/ stored
- vi. Present some of the data in some form (i.e. curation)

Include all references, citations and attributions of external information sources used in the writeup.