

C745 – Course 3 “Communication: Advanced Data Visualization” (3cr)

- **38hr/cr – 112hr (5wk) – 48pg paper (77hr) – 13hr Video Lectures – 10.0hr Textbook & Labs**
- **Definition:** Visualizing and telling stories with data. History, examples, create graphs, etc..
- **Self-Prep Training,** 1.50hr (1 wk) – 1.50hr Video – 1/15 : 1/15
 - DONE – 1.50 hr – [LINK](#) – Microsoft, Analytics Storytelling for Impact – **Excellent**
- **Course Setup / Plan of Action / Installation:** 3.00hr (1 wk) – 3/4 : 3/5
 - DONE – 0.50 hr – Getting started, read the “Course Material” website (not start training though), download copies course chatter, advice guide, tip sheets...
 - DONE – 1.25 hr – Course Chatter Doc (85pg) – pull out 1 pg of good tips and links for use later and links for below
 - DONE – 1.00 hr – Read Resources, Student Advice Guide, and Tip Sheets; consolidate all links in the section below to watch/read back to back
 - DONE – 0.25 hr – [LINK](#) – Download and Install Tableau Student Edition
- **Instructor’s Recommended Pre-Training,** 7.25hr (1 wk) – 7hr Video – 3/5 : 3/7
 - DONE – 0.50 hr – [LINK1](#), [LINK2](#), [LINK3](#) – Excel Dot Plots
 - DONE – 0.10 hr – [LINK](#) – Excel Bubble Chart
 - DONE – 0.15 hr – [LINK](#) – Excel Heat Map
 - DONE – 0.10 hr – [LINK](#) – Heat Map Idea for Better Communicating Results
 - DONE – 0.15 hr – [LINK](#) – Using Excel to Create a Weighted Scheme
 - DONE – 0.10 hr – [LINK](#) – Decision Matrix / Weighting
 - DONE – 0.15 hr – [LINK](#) – Weighted scoring/criteria/rank – CAR example
 - DONE – 0.10 hr – [LINK](#) – Weighted Averages
 - DONE – 0.15 hr – [LINK](#) – What is a Weighted Score
 - DONE – 0.10 hr – [LINK](#) – Constructing a Weighted Matrix – Great examples, added to notes
 - DONE – 0.10 hr – [LINK](#) – More on Weighted Scores
 - DONE – 0.10 hr – [LINK](#) – Weighted Average Calculation Videos (cut out early, need to register)
 - DONE – 1.00 hr – [LINK](#) – Google and read PDF book “Visualize This” by Nathan Yau (optional) – Timeboxed at 1hr
 - DONE – 1.00 hr – [LINK](#) – Elements of Effective Storytelling (2x)
 - DONE – 0.75 hr – [LINK](#) – Tableau Training, Live Series, watched one video, may watch others later
 - DONE – 2.25 hr – [LINK](#) – LinkedIn: Tableau 10 Essential Training (2x speed, skipped 3 of 14 chapters)
 - DONE – 0.50 hr – [LINK](#) – Final Project, Best Practices (1.25x)
- **Interactive Text Books + Take Notes,** 13.00hr (1 wk) – 9.50hr Interactive TextBooks – 3/7 : 3/15
 - DONE – 0.10 hr – [LINK](#) – Introduction
 - DONE – 0.75 hr – [LINK](#) – Chapter 1 – Telling Stories with Data: Exercises
 - DONE – 0.50 hr – [LINK](#) – Chapter 2 – Handling Data: Exercises
 - DONE – 0.75 hr – [LINK](#) – Chapter 3 – Choosing Tools to Visualize Data: Exercises
 - DONE – 1.00 hr – [LINK](#) – Chapter 4 – Visualizing Patterns Over Time: Exercises
 - DONE – 1.25 hr – [LINK](#) – Chapter 5 – Visualizing Proportions: Exercises
 - DONE – 0.75 hr – [LINK](#) – Chapter 6 – Visualizing Relationships: Exercises
 - DONE – 1.00 hr – [LINK](#) – Chapter 7 – Spotting Differences: Exercises
 - DONE – 1.75 hr – [LINK](#) – Chapter 8 – Visualizing Spatial Relationships: Exercises
 - DONE – 1.00 hr – [LINK](#) – Chapter 9 – Designing with a Purpose Exercises
 - DONE – 1.50 hr – [LINK](#) – Appendix & Labs (broken, lots of gymnastics to get python script output, etc.; did not complete XL dashboard)
 - DONE – 1.50 hr – [LINK](#) – Tutorial: Up & Running with R (2x)
 - DONE – 2.00 hr – [LINK](#) – Tutorial: Tableau 9 Essential Training (2x) – Note this course is archived, a newer version exists
 - DONE – 0.15 hr – [LINK](#) – Tutorial: Creating Interactive Dashboards in Tableau – Already previously viewed this according to LinkedIn
- **Performance Assessment (Project & Paper) ,** 76.50hr (5 wk) – 76.50hr Writing Paper – 3/5 : 4/12
 - DONE – 76.50 hr – Pass 1: Excel Data Cleaning, Regression Analysis, Research Ideas on what to do, rough out both XL documents, very iterative.