

We will be using Revit 2017 and 1.2.1... although the version of Dynamo shouldn't matter. No special packages required. Some helpful packages will be listed as part of the coursework.

1. Introductions
 - a. Objectives
 - b. What is Dynamo?
 - c. Why Dynamo?
 - d. Uses
 - e. Limitations
2. Navigating Dynamo
 - a. Library
 - i. Navigation
 - ii. Packages
 - b. Nodes
 - i. Ports
 - ii. Wires
 - iii. Native vs. Custom
 - iv. Code Blocks
 - v. Python
 - vi. Troubleshooting
 - c. Data
 - i. Strings vs. Numbers
 - ii. Booleans
 - iii. Nulls
 - d. Class Exercise 1 – Manipulating Strings/Numbers
3. Lists
 - a. Index
 - b. List of Lists
 - c. Lists and Excel
 - d. Class Exercise 2 – Sorting List Data
4. Revit Data
 - a. Selection
 - i. Model Elements
 - ii. Categories
 - b. Parameters
 - i. Types of data
 - ii. Instance/Type
 - c. Class Exercise 3 – Retrieving/Setting Data in Revit
5. Geometry
 - a. Vectors
 - b. Points
 - c. Curves
 - d. Surfaces
 - e. Solids
6. Revit Geometry
 - a. Extracting Geometry
 - b. Creating Geometry
 - c. Class Exercise 4 – Framing a Roof via Dynamo
7. Conclusion