

# Graph-Driven Parametric Construction Models

## Task

- Get accustomed to Neo4j [1], Cypher, Grasshopper [2], and Rhino Compute (Materials will be provided).
- Develop a graph meta-model for the Neo4j Host-Graph
- Decide on sample use-cases
- Model and design a Grasshopper Parts-Catalog
- Develop a method of invoking the Grasshopper scripts when querying the graph

## Project Characteristics

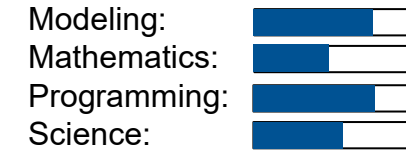


Figure 1: Sample Resulting Bridge Structure

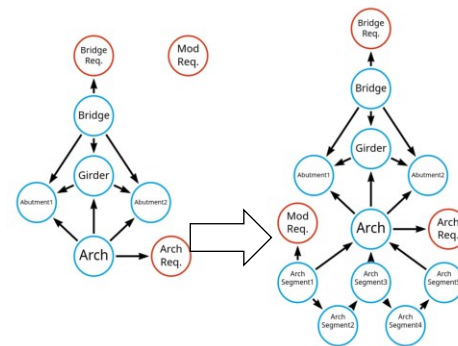


Figure 2: Sample Graph

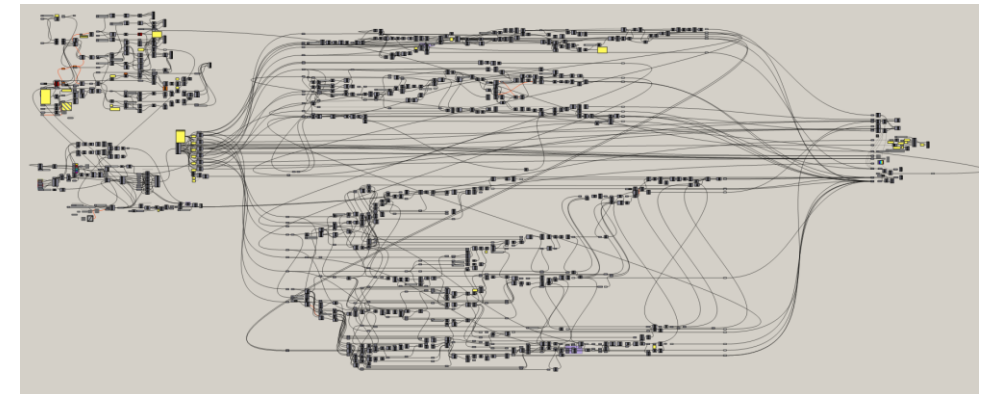


Figure 3: Sample Grasshopper Script [3]

[1] <https://www.grasshopper3d.com/>

[2] <https://neo4j.com/>

[3] <https://global.discourse-cdn.com/mcneel/uploads/default/original/4X/b/c/1/bc1f8453aed382db91dad321d0ec05542704b8a5.png>