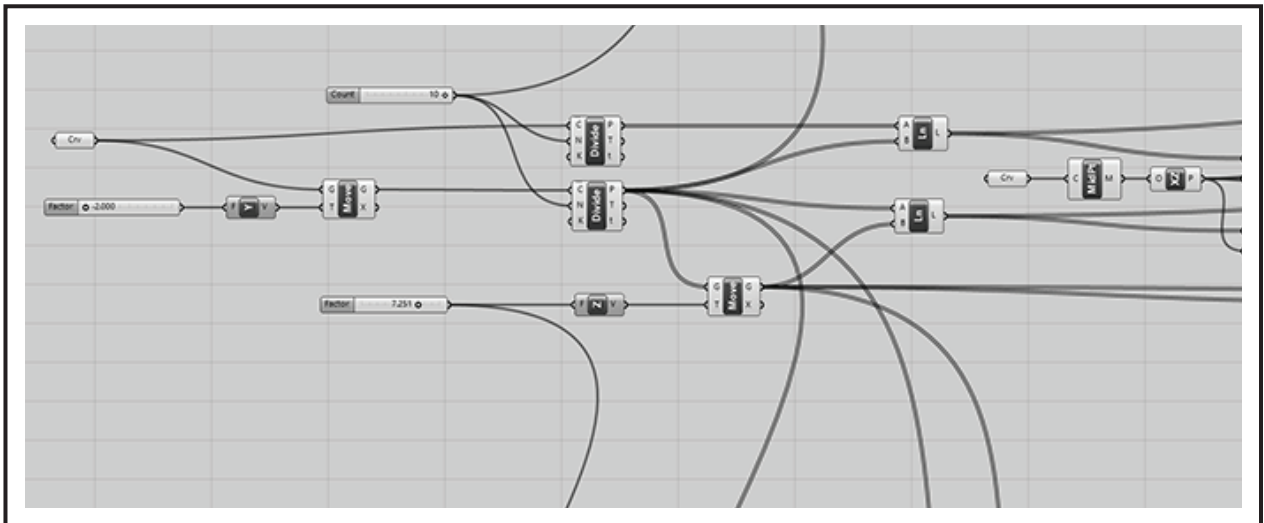
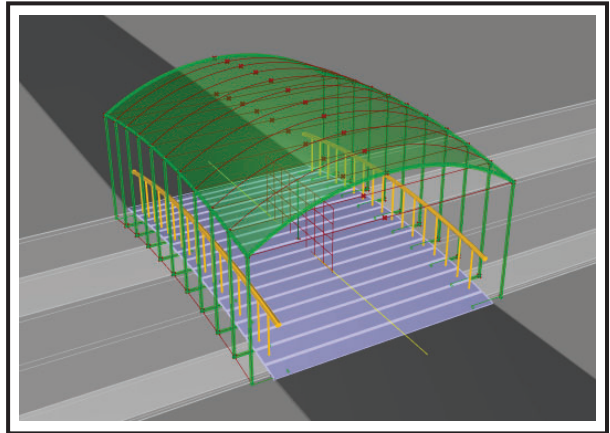


Project Description

With the bridge design completed, pricing has come back from the contractor. To your surprise, it appears to be under budget and thus there is indeed enough money leftover for a covering (roof). Having explored Parametric/Generative NURBS modeling with Grasshopper, you have decided to use it for your design.

For this assignment, take your bridge design you submitted for assignment #1 and using Grasshopper, design a covering for it. You will likely need to do some setup geometry in Rhino that you can use inside Grasshopper. For example, in the center of the bridge, there is a line that was drawn down the midline so that it can create a mirror plane in Grasshopper.



Like the bridge, your "roof" will ultimately consist of surfaces, so all your curves and points are simply to get you to the end product. In order to better grade your Grasshopper "geometry", **DO NOT** bake anything as I would like to see how you incorporate parametric and/or generative design into your work.

Project Requirements

1. Create a **MINIMUM** of 20 objects for your bridge covering. You will likely have many more than that.
2. **DO NOT** bake any of your geometry, so your Grasshopper work can be properly graded.
3. Since Grasshopper has its own file format, you'll need to save and submit **BOTH** the Rhino (3DM) AND Grasshopper (GH preferred) files.

Schedule

Your **3DM** and **GH** files are due on Canvas by 11:59 pm on October 17th, 2026. If you have issues uploading your files to Canvas, you can send them as an attachment to me electronically at **pnoldt@uh.edu**