

Assignment for Week 3 - due by the fourth class period

JMU 3-SPACE Classroom

1. Continue printing things! You now have card swipe access and can enter the room anytime that the building is open. Points to consider:

- I recommend that you print **SMALL** things, because printing things more than about 50mm on a side can be tricky with these machines.
- You will get credit for everything you print in this class, so take pictures of each project and also keep all your “fails” for further review.
- If you didn’t finish a successful object last week then make sure to do so this week (although you can switch to a different object if you like).
- You can print **SMALL** things you find online at sites like www.thingiverse.com but you will not get as much credit for printing things that you did not personally model. You should still take pictures and keep your fails, however; everything you print should be recorded.

2. Write a proposal for your final project in this class. Instructions:

- Your project should push the limits of what you can do; this means that it should not be as simple as your initial project. You should be able to convince me that this project goes beyond what you did in your first prints.
- Your final project should have a purpose, an interesting property, or some other reason to exist. You should be able to convince me that it is worth printing and worthy of “final project” status.
- In your proposal you should convince me that you think you can create the object, and tell me how you plan to do so. You are not limited to Tinkercad; you can also use shape scripts, OpenSCAD, SolidWorks, Blender, MeshLab, Sketchup, 123D Design, Mathematica, or whatever works for you. If you don’t know how to make the object yet, then tell me what you think you need and we will figure out what you should learn about.
- One page single-spaced typed (much like this page) with the following outline:

Your name:

Project name:

Description of the project:

How this project goes beyond my initial prints:

Why the object I want to print is interesting and/or should exist:

What will be used to create this object, and how:

- You should keep a local/personal copy of this file, but when you are done please upload it to the folder “final project ideas” with name “yourscreenname_projecttitle” in the folder for your class day in the jmu3space Google Docs account. (Username jmu3space, password Threespace - note capitalization, unlike the Tinkercad class account password.)