

3D PRINTING **INFORMATION**

ABOUT 3D PRINTING

3D printing is a revolutionary process that allows an individual to be their own manufacturer. In the past, people relied on mass production of objects. Today, we can create models of practically anything to print and use in a number of contexts. Whether you need a part for your washing machine or an action figure of your favorite superhero, 3D printing is a viable and affordable option.

FINDING & CREATING 3D MODELS

The following tools can be used to easily find and create 3D models.

MakerBot Thingiverse / MakerBot Printshop / Autodesk 123D Suite / Sculptiris / TinkerCAD / SketchUp

SUBMISSIONS

Only submit ONE print request at a time. Additional requests should not be submitted until the previous request is finished. For multi-part models (that are assembled to create one finished design) please organize the files together into a folder for the setup process.

FILE APPROVAL

This 3D printing service is limited to Southeast students, faculty and staff. All submissions are subject to approval based on scheduling and availability. Files will be printed in the order that they are approved, not the order that they are submitted. **To prevent excessive wear on the printers, jobs exceeding a print time of 12 hours will not be printed.** Please note that due to the number of requests that we receive each day we are not able to print more than one project per student at a time. Multiple orders from one student will be staggered in our print queue. **We reserve the right to decline any print request for any reason.**

QUALITY

Items printed may have small surface defects such as bumps or holes. Finished 3D prints are very accurate. However, we do not guarantee any precise tolerances on fitting of multi-part objects.

SUPPORT MATERIAL

Some objects require support material to be printed, especially objects with large overhangs. Other designs may require a raft support at the base of the model. These materials can be easily removed, but you are responsible for removing them. **Our staff will not remove the support material for you.**

COST

For each job, a \$3 setup fee will be assessed. There will also be a cost for the material used billed at \$0.05/gram for the Makerbot and \$0.18/ml for the Formlabs. These fees will be added to your University account.

Visit library.semo.edu/hmgmc
to find out more.

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