



Digital Fabrication Lab  
Architecture Department  
College of Architecture and Construction Management

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# 3D PRINTING

A Quick Start Guide



# 3D PRINT QUICK START GUIDE

Version	Dated	Description	By
1	1/28/2016	Original DRAFT	ADakin
2	10/13/2016	Updated w/ professor signature	RJohnson

## Preparing an Object for 3D Printing

- Create a 3D model using a program of your choice.
- The print must be an object that you **CAN NOT** make using either the laser cutters or the woodshop.
- All objects must be a mesh, a closed (water-tight) form and have a thickness.
- For more mesh prep tips visit <http://3dprinting.com/tips-tricks/practical-tips-creating-3d-models-3d-printing-maya-screenshots/>
- The model must be created in either millimeters or inches.
- The maximum print sizes are:
  - U Print SE: 8" x 6" x 6" (Ivory Only)
  - U Print SE Plus: 8" x 8" x 6" (Can print color)
  - Dimension 1200: 10" x 10" x 12" (Can print color)

## Exporting your file

- Once the file is prepared correctly, you will be exporting it out as a **.STL** file.
- Make sure you are **ONLY** exporting out the model to be printed.
- Save the file to a flash drive or hard drive.

## Colors and Dissolvable Materials

- Multiple colors can be used during a single print, however specific parts in a print cannot be made different colors.
- The water soluble support material can be used to create voids, moveable parts, enclosed gears, joints etc.

## Submitting your 3D Print Requests

- Fill out a 3D printing request form, which can be found at <http://cacm.kennesaw.edu/architecture/about/facilities.php> prior to dropping by the Digital Fabrication Lab.
- Bring your file and completed form to the Digital Fabrication Lab in N315.
- The staff will review with you the options available for processing the print.
- **AFTER staff confirms that your object is printable, you must have your professor sign off on your 3D print form.**
- Return your signed form to staff to proceed with printing.
- You will be notified by email when your objects are ready.
- **DO NOT EXPECT TO PICK UP YOUR FILE THE SAME DAY! 3D printing is not fast, especially on larger objects.**
- The lab is open 10am to 10pm and is capable of running jobs over night.