

J. W. Olver Design Building 3D Printer Policy

The printers in the Design Building are reserved for **academic projects only**.

For the time being the printers are reserved for classwork and only should be used for assignments **where 3d Printing is specified in the assignment**.

Access to the 3D printers is limited to students and personnel within the departments of: Building and Construction Technology, Architecture, and Landscape Architecture and Regional Planning; or to students taking classes within one of the departments, so long as they are using it in support of the class that they are taking in that department.

Do not print large items. These printers are intended for training and instructional purposes only, not primary production. If you need to print sizable items or a large number of small items you are to use the UMass Libraries Print Services.

The 3d printers may only be used for lawful purposes:

No weapons or otherwise dangerous items may be printed.

No drug paraphernalia may be printed.

No offensive objects may be printed.

No objects in violation of intellectual property rights may be printed. Other than the pre-programmed examples on the machines, you are only allowed to print items that you have designed and modeled yourself.

Only print objects that make sense to print. Simple blocks and volumes can be faster and more effectively produced using other methods of construction and should not be 3d printed.

Only use the ABS printer (UPrint) for items which require the soluble support strategy or need to be made out of abs for functional reasons. Aesthetic reasons are not a justification for using this machine as the resolution levels and material appearance is very near, and potentially even less sub-par, to that of the Maker Bot PLA Printers.

Printer use is first come, first served. However we do ask that you remain courteous in your use of the 3D printers:

Please do not tie up multiple printers with your files at the same time.

If you know that your file will take a long time to print, please allow someone with a short file to print first if they ask and can be ready within a reasonable period of time.

Please remove your prints as soon as they finish so that the next person can print without removing your model.

Please do not remove someone else's print. If you need to use the printer and a print has been left on the bed ask the Shop manager or the Lab monitor to remove the print.

The quality, resolution, and usability of the prints is not guaranteed. The monitors or shop supervisor are not responsible for any printing failures.

Do not change the rolls of filament or make any adjustments or modifications to the machines. If something needs to be adjusted or a roll needs to be changed contact the Shop Manager or the Digital Fabrication TA.

Stay with the print during the start of the printing process to ensure that it is working properly. The initial bond with the build surface is critical and it is always best to monitor the early stages of the print more closely to ensure that it has properly bonded.

All prints should be monitored and checked regularly to prevent print failures from causing damage to the machine(s) or the lab. Note: 3D printing puts trace amounts of plastic and chemicals into the air. Environmental Health and safety does not want students sitting in the lab for extended periods of time while the printer is running. It is preferred that monitoring is done from the Laser Lab with occasional visits into the 3D print lab for close examination.

If a failure is apparent or the high risk of a failure is detected stop the print immediately. If there is concern regarding the potential for failure coordinate with the TA or Shop manager to establish a means of constant supervision for the print, or to develop another strategy to make the object printable.

If a print fails and the reason is not apparent or cannot be determined do not just print it again. Contact the Shop Manager or the Digital Fabrication TA for help troubleshooting the issue(s).

Do Not Print overnight or outside of monitored lab hours.

We reserve the right to refuse any print and revoke 3D printing privileges to anyone who fails to follow these rules.

Contact the Shop Manager if you have any questions about these policies and rules, or the 3D printing process here in the Design Building.

Shop Manager: Evan Janes (ejanes@umass.edu)