CNC and 3D Policies and Helpful Tips

CNC MILLS

- The CNC mills for reserved for student academic work only.

- **The CNC/3D Print scheduling software will be unavailable as it goes into administrative mode every Friday from 10AM to 12 Noon.**

- Place your geometry in the CNC Template, available at //juno/Public/DigitalFabrication/ or in the Downloads section of this website. Only properly templated files can be accepted.

- The template is formatted for 1:1 scale in inches. Please do not change this.

- The maximum acceptable file size is 64MB. No files larger than 64MB can be accepted.

- Please use only the the layers preconfigured in the template. Delete any extra layers and all unnecessary information from your file.

- The maximum stock size per single-student submission for foam is 4600 cubic inches (e.g., 48” x 24” x 4”). This is the size of the blank material prior to being milled, not the finished model size.

- The maximum stock size for wood is 2000 cubic inches per single-student submission.

- Group or class projects that involve more than one student may mill larger pieces combining the maximum stock sizes listed above (e.g., a group of two students can mill 9200 cubic inches in foam or 4000 cubic inches in wood).

- The maximum bed size of the CNC Mills is 48” x 48”.

- You may be required to modify your geometry to accommodate the cutting limitations of the CNC mill or if your design could potentially result in damage to the CNC mill.

- Projects will be completed on a first-come, first-served basis. To be fair to everyone, there can be no exceptions.

- The CNC technician will give you an estimate of the time when your file will be finished.

- You may make changes to an already submitted file, but your file will be moved to the end of the queue.

- You will be notified by email when your project has been finished.

- All scheduling conflicts will be resolved by Dennis Pierattini, not the faculty member or the CNC technician.

3D PRINTERS

- You may use the 3D printers for academic work only and not for personal projects, work for professional firms, or for academic work outside of Penn Design.

- **The CNC/3D Print scheduling software will be unavailable as it goes into administrative mode every Friday from 10AM to 12 Noon.**

- Place your geometry in the appropriate 3D Print Template, available at //juno/Public/DigitalFabrication/ or in the Downloads section of this website. Only properly templated files can be accepted.

- The template is formatted for 1:1 scale in inches. Please do not change this.

- The maximum acceptable file size is 64MB. No files larger than 64MB can be accepted.

- Please delete any extra layers and all unnecessary information.

- The maximum build envelope for the F270 ABS Fused Deposition Printer is 12” x 10” x 12” height. You may use the full build size for each submission.

- The maximum build envelope for the J55 Color Resin Printer is 5.5” x 7.8” 7.4” height. You may use the full build size for each submission.

- Multiple objects can be placed within each printer’s build envelope per submission.

- If you are in the queue for one 3D Printer, you may also submit work for the other 3D Printer.

- Projects will be completed on a first-come first-served basis. To be fair to everyone, there can be no exceptions.

- Prior to committing to a print, the 3D print technician will give you an estimate of the cost to print your file and when it may be completed.

- Due to the nature of the 3D print process, once a project is started in the printer it must be completed in its entirety.

- You may make changes to an already submitted file in the queue, but your file will be moved to the end of the queue.

- You will be notified by email when your project has been finished.

- All scheduling conflicts will be resolved by Dennis Pierattini, not the faculty member or the 3D print technician.