Advanced 3D Printing Worksheet

Please complete this worksheet and bring it with you to your appointment so we can help you with your project. Talk to shop staff or your faculty if you have questions.

Name:_____

Email:_____

Appt. Date and Time:_____

Class:_____

Faculty Name:_____

Advanced 3D Printing Settings

Printer Name:_____

Material:_____

Object Size and Number:_____

3D Print Payment
(To be completed by shop staff)

Not applicable if using Ultimakers (Digital Fabrication Class Only)

Model Material Used_____ in³

Support Material Used_____ in³

Total Material Used_____ in³

           X $5.00

Total Cost_____

Paid ☐

Advanced 3D Printing Reminders

- Make an appointment
  - 3D Shop Intranet page
  - Do not need to be present for the whole print but please check in regularly
- File saved to the correct format
  - For the Ultimakers: Cura Gcode
  - For other printers: STL
- Bring your STL, Gcode and original file
  - Shop does **not** provide flash drives or floppy disks
- The cost of 3D printing is $5 per in³ based on the amount of material you use
  - Plastic printers: Support material and Model material
  - Gypsum printer: Model material
  - Ultimakers: Advanced Digital Fabrication students purchase their own cartridge
- File is solid, free of holes, and watertight
- Object fits within the limitations of the printer
  - Uprint max size: 8" x 8" x 6"
  - Fortus max size: 14" x 10" x 14"
  - Ultimaker max size: 9" x 9" x 8"
  - Gypsum printer max size: 9" x 7" x 5"
- Position your object for the best possible print
  - Slicing object
  - Largest/flattest side down
  - Supports turned on
  - Sidewalk, brim or raft turned on
- Factor in extra time for finishing tasks
  - Soaking time for soluble supports
  - Curing time for gypsum prints
  - Super glue coat on gypsum prints
  - Assembly of sliced parts
  - Sanding, Painting, etc.