In the interest of student safety and to prevent accidental misuse of the 3D printers, we require that all students using this equipment complete a training session to become qualified in the use of department 3D printing equipment. This includes students who have used department 3D printers prior to implementation of this Policy and Procedure.

**Equipment Access**

In order to access the 3D printers a student must have:

1. A specific project need, which has been reviewed and approved by their advisor
2. Been qualified on the use of the equipment
3. Been scheduled for a specific time to use the equipment

Qualified students will be permitted to use the equipment in the evenings and on weekends provided they have successfully completed the training sessions. Students will need to contact Public Safety, who will have a list of qualified students, and who will then permit them access to F258.

**Equipment Safety and Operation**

During the 3D printing process, nanoparticles are generated. Nanoparticles present a potential health hazard. While these health hazards are not well defined and variables such as the type of nanoparticle, the level of exposure, and the route of exposure greatly impact the potential health hazards, exposure to any chemical should always be limited as much as possible. Research on nanoparticles is ongoing. We are continuing to review and stay current on the latest findings for nanoparticle safety guidelines.

Please follow the following guidelines.

1. **Never touch the extruder nozzle on any of the 3D printers when it is heated as the operational temperature is in excess of 200 degrees Celsius as this will result in severe burns.**
2. **Never touch the build plate of the Replicator 2X when it is heated as the operational temperature is in excess of 100 degrees Celsius as this will result in severe burns.**
3. **Never open the door of a 3D printer while the printing process is in operation.**
4. **Always wash your hands and exposed body parts thoroughly when finished with your work.** This will not only prevent the transfer of nanoparticles to items such as food, cough drops, and gum, but will also help prevent possible absorption through the skin.
5. **Always make sure the machine temperature has returned to room temperature prior to accessing the machine.**
6. **Please be cautious removing the raft from the item you are printing as the plastic can be very sharp and could cause a cut to your skin.**