3D Printing Checklist

Settings	Description	Y/N
Printer Selection	Has the right printer for your print (**Replicator + or Z18**) been chosen? This determines the print space on which to orient your design.	
Orientation	Are all objects to be printed sitting on the build plate? • Make sure objects are oriented such that the side of the object with largest area sits on the build plate. • Do not group objects in the .print file submitted, as the operator may need to change orientation of objects on the build plate.	
Raft	Raft must be selected	
Support	Indicate your preference for whether you would like support material - please note that it is up to the operator's discretion to apply support material or not.	
Extruder	**Smart Extruder +** must be selected.	
Infill	Is infill set to **10%**? Please note that any request that specifies a greater percentage infill needs to be discussed in the 'Notes' section with the operator.	
Layer Height	Is the layer height set to **0.2mm**? Please note that any request that specifies a higher resolution needs to be discussed in the 'Notes' section with the operator.	
Shells	Are the number of shells set to **2**? Please note that any request that specifies a higher number of shells needs to be discussed in the 'Notes' section with the operator.	
Export File	Are you submitting a **'.print'** file? Any other file types will not be accepted.	
Project Name	Has your 'Project Name' been labelled to the following format: • **Coursework students**: <Subject no.> <Workshop no. (if applicable)> <Group no.> <Part name> e.g. MCEN30014 W02 G14 Gear1 • **Capstone**: <Subject no.> <Capstone no.> <Part name> e.g. MCEN90022 CP-CPU-000 Wheel1 • **Researchers/staff**: <Other> <Part Name> - please detail the faculty/department, project details, and supervisor in the '**Notes**' section of the request.	
Notes	Include any special requests/deviations or notes in the description	

If the settings of the submitted .print file deviate from the specified standards, they will automatically be changed to meet the standard - unless documented in '**Notes**'. Requests are processed and harvested in the morning **9-10am** and in the afternoon **4-5pm**. Please direct all questions regarding the 3D printing process to MSE-3Dprint@unimelb.edu.au. Any questions about the Engineering Workshop please direct to Kevin Smeaton at k.s@unimelb.edu.au