

3D Printing at Community Colleges

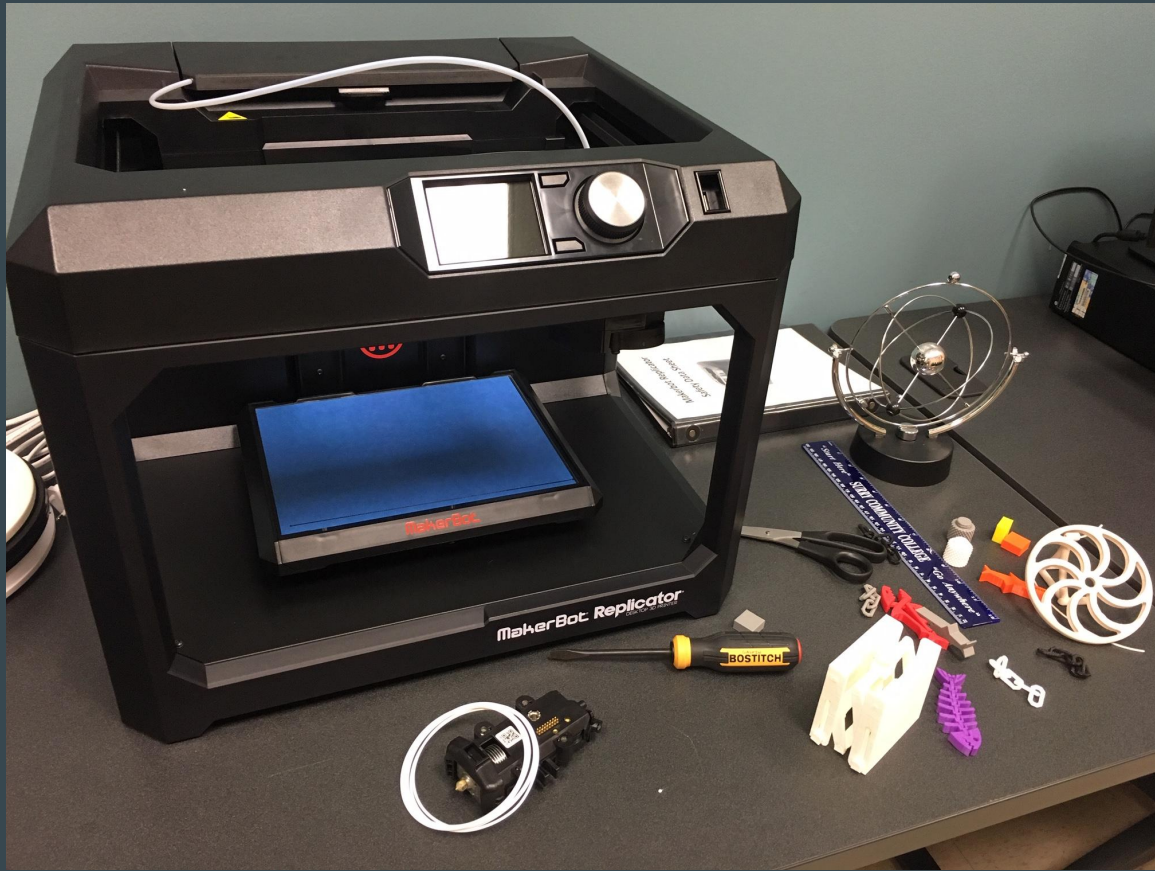


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Gaston College - 3D Printer

- LSTA grant 2015
- Morris Library Training Lab - Small classroom use.
- 3D Printer
- Other future technologies
- (2019) One Touch Button Recording Studio



Makerbot Replicator

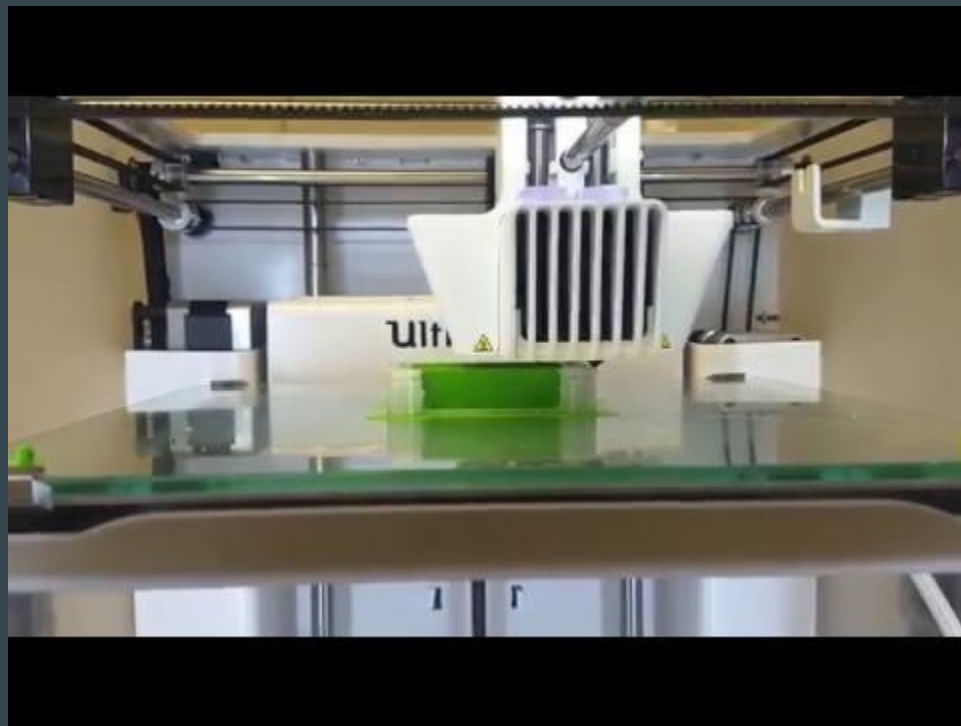
- 20¢ per gram (rounding off to nearest gram)
- Affordable, Consumer 3D Printing
- Filament: PLA Plant-based Plastic
- Build Volume: 9 x 7 x 5 inches

Central Carolina 3D Printer: Ultimaker 3

- LASER TEC Grant
- Build Volume: 8.5 x 8.5 x 7.9 inches
- Dual nozzle printing
- Filament: PVA water soluble filament, PLA plant based plastic.



Video of dual printing



3D Printing Process

- Patrons submit files for approval, as well as have a consultation to discuss pricing, size and length of time.
- \$0.25 per gram
- Typically take 2-3 days to print.

Outreach

- One-on-one meetings with teachers.
- Mention during student orientation.
- Keep printer visible to patrons.
- Schedule workshops.

Troubleshooting

- Online resources (Forums, open access files and software)
- Trial and error
- Talk to other Librarians

Open Discussion:

- Do you have any questions about our 3D printers/services.
- Why would you or would you not use a 3D printer in your library?
- How can 3D printers be utilized by Faculty?