

FIRST TECHNOLOGIES FABLAB

Vinyl Cutting
Cutters can be used to layout designs and create labeling. The vinyl cutters produce crisp, eye-catching graphics with speed and precision. Use your cutter to create signs, decals, labels, stencils, and logos.

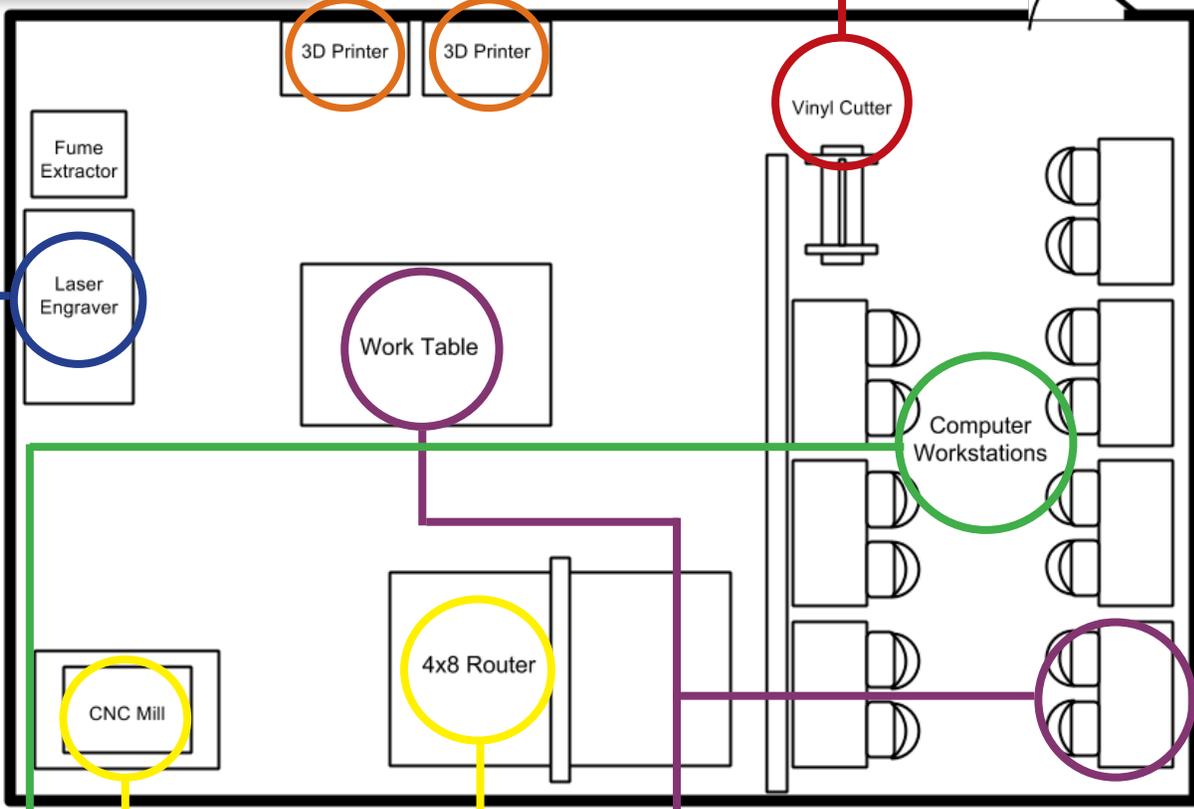
3

Laser Engraver
Laser engravers offer a unique design solution in the FabLab. A laser engraver can engrave or cut many types of materials with great precision. Epilog makes high quality laser engravers that work with a wide range of materials including plastic, wood, glass, leather, marble, matte board, paper, and more. Laser engravers have been a great draw to programs because of the variety of functions they serve in the classroom.

1

Additive Manufacturing
With the addition of 3D printing to a FabLab, you can design small scale models for larger projects, reverse engineer parts, or manufacture parts to build ideas from scratch. The flexibility of additive manufacturing is a useful tool that also provides job ready skills.

2



Software
Use your CAD/CAM software to work with parts and do numerous tests prior to production. A FabLab can venture into new ideas and try to solve problems in new, different ways. This is the first step in working with a variety of materials to make more complex parts suited for specific tasks. It enriches the whole learning experience of creating in the FabLab.

7

Furniture
Faculty, administration, and manufacturers collaborate to design and implement the highest quality lab space possible. From custom designed lab solutions to classroom layout, they create a multifunctional space for instruction with flexible workspaces. Classroom layouts can also be designed around STEM-related activities or specific program goals.

6

Subtractive Manufacturing
CNC automation enables you to design a part on your computer and reproduce that design quickly using the router or milling machine. Using a CAD/CAM package like Mastercam, a CAD drawing can be turned into toolpaths that instruct the machine router. The program produces the G-Code that tells the machine where and how deep to cut. This technology has become more advanced and now can be used on tabletop milling machines with rotary fixtures that allow 360 degree routing. Available with a wide range of tooling options, these machines can be used to fabricate a variety of materials with great precision.

4

5

FabLab options include:

Laser Engravers



Epilog



Afinia

1

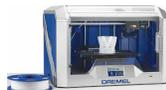
3D Printers



Afinia



Ultimaker



Dremel



Airwolf



Polar 3D

2

Vinyl Cutters



Roland



Graphtec

3

Subtractive Manufacturing - Mills



Intelitek



Baileigh



Tormach

4

Subtractive Manufacturing - Routers



EZRouter



Baileigh



Techno

5

Furniture



Interior Concepts

6

Software



Corel DRAW Graphics Suite x8



Adobe



7

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products and more!*

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