

MAKER SPACE 307

CATALOG

EQUIPMENT & CLASSES



Maker Space 307
2255 Brunton Court, Suite A
Riverton, WY 82501

makerspace307.org
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2023 Catalog

ABOUT US

Maker Space 307 supports creative ideas, inventions, and startups by teaching people to use the tools and technology necessary to make their own way.

Maker Space 307 has been serving the community of makers in Fremont County since 2011. Teaching kids to code, helping entrepreneurs prototype, workshops for weaving, casting metals, and woodworking, silversmithing, CAD, printmaking, making spoons from Buffalo Horn, and casting recycled aluminum.

You can visit us with ideas for your next project or take a class and become a member of Maker Space 307 and use our equipment and learn at your own pace. We encourage you to join the DIY and creative community that is an important part of Fremont County.



EQUIPMENT & CLASSES



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DIGITAL FAB

EQUIPMENT & CAPABILITIES



Digital Fabrication & Advanced Manufacturing

Digital fabrication tools allow you to quickly and efficiently produce complex designs with maximum precision. With 3D printing, you can make 3D models that are perfect replicas of the original design. Laser cutters can cut through materials with pinpoint accuracy, allowing you to create designs that would otherwise be impossible with traditional tools. CNC routers and mills will enable you to precisely carve or mill parts from various materials, making them the perfect choice for creating intricate parts.



Laser Cutter

Capable of cutting and marking wood, plastic, paper, fabric, and cardboard and marking various metals.

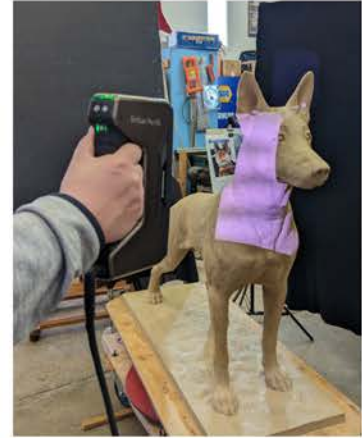
80W CO2 Cutter
50W Fiber Marking



3D Printer

Filament based 3D printers capable of creating objects up to 330 x 240 x 300 mm (13 x 9.4 x 11.8 in)

BambuLab X1 Carbon
Prusa i3 MK3S+
Prusa Mini+
Ultimaker S5



3D Scanner

White light structured light scanner with turntable, tripod, and color pack. Create scans for 3D printing, digital kit-bashing, digital preservation, and more.

Einscan Pro HD



CNC Router

Capable of cutting various materials but is best at cutting wood. With a working area of 48 x 96 inches. Capable of accepting 1/2", 1/4", and 1/8" tooling.

Avid CNC PRO4896



CNC Desktop Mill

Our small desktop CNC mill is capable of making parts and prototypes from wood, plastic, wax, brass, and aluminum. 7 x 9 x 3.3 in working area.

Bantam Tools Desktop CNC Milling Machine



Vacuum Former

Industrial level thermoforming machine capable of forming material up to 1/4" in thickness. Maximum sheet size 18x12 in.

Formech 450DT

DIGITAL FAB

CLASSES & WORKSHOPS

Digital Fabrication Classes

Learning how to use digital fabrication tools can open up a whole new world of possibilities for your projects. You can create complex and detailed designs with ease, saving you time and money. With the ability to produce exact replicas of your designs, you can have confidence that your projects will look exactly as intended. These digital tools can give you the competitive edge you need to make your projects stand out. With 3D printers, laser cutters, CNC routers, and CNC mills, you can create detailed, intricate, and high-quality projects that are sure to impress.





Laser Cut Jewelry

Use vector files to generate small forms from wood, and acrylic for jewelry making that is fun, inexpensive, and quick. Materials provided.

3 hrs | \$20 members | \$30 non-members



Laser Cut Box

We use an app to customize your box dimensions for a finger jointed box. Customize with engraved initials and you have a unique box. Glue assembly. Materials provided.

2 hrs | \$10 members | \$20 non-members



3D Printed Key Fob

This beginner 3D printing class is designed to get you designing your own objects in quickly using TinkerCAD

2 hrs | Free members | \$20 non-members



CNC Router Toy Car

Learn how to make wooden parts with our CNC Router. Students will use a premade file to create their own small toy car. Materials provided.

3 hrs | \$10 members | \$20 non-member



Machinist Rule

Learn how to make metal parts with our new CNC Desktop Mill. Students will use a premade file to create their own small aluminum machinist rule.

3 hrs | \$10 members | \$20 non-members



Beginner Vacuum Forming

Use hand wrought forms from clay or 3D printed forms, or found object as patterns to form vacuum form. A good process to make multiples or molds for anything.

3 hrs | \$10 members | \$20 non-members

METALS LAB

EQUIPMENT & CAPABILITIES



Metal Smithing & Jewelry Making

We have a well-organized metals lab with jewelers' benches ready for you to start working.

Our equipment and space allow you to cast, form, and shape non-ferrous metals. In addition, the space has access to the laser to generate texture plates of your designs and 3D printers to generate prototypes and final models for casting in sand or solid molds for burnout.



Work Benches

Each work bench has basic pliers, a bench pin, a saw frame, a flex shaft tool, and room for the unique tools you may bring. Adjacent to benches are buffing wheels, hot table, kiln, and mills.



Forming Mills

A roller mill for non-ferrous metals. A hydraulic press to work with pancake dies, silhouette dies, impression dies, texture plates & bracelet dies.

Potter Electric Hydraulic 20-Ton Press



Kiln

PMC & Enameling

For firing PMC, enameling, solid mold burnout, and fused glass. Nine programmable settings.

Rio PMC Kiln with Programmable Controller



Hot Table & Torch

Equipped with solderite pads, compressed and natural charcoal blocks, a soldering tripod, a third hand.

Smith, Silver Smith Acetylene Air Torch



Metal Casting

An electric melting pot for 2 KG—crucibles for pewter, aluminum, and silver. A 3 KG—crucible for aluminum with the propane melting pot. Sand casting iron flasks for oil sand casting. Small flasks for lost wax fine jewelry casting.



Generating Patterns

3D printed patterns for casting are generated with CAD or 3D scanned found or modeled forms. The scale of digitized objects can be scaled to suit jewelry. Laser generated texture plates for use with Mill.



METALS LAB

CLASSES & WORKSHOPS

Metal Smithing & Jewelry Making

In metals, we work with the basic processes, shaping with shears or saws; forming with pressure; soldering & annealing; casting in solid molds from patterns; surfaces with texture & color.

We have the equipment to work through all possibilities, & workshops to develop your skills.

The metals lab is open to the general work area for metalsmithing workshops presented by visiting artists and staff. In addition, we'd like to hear suggestions for visiting artist metalsmiths.



Enameling

If you can make cinnamon toast, you can enamel. Learn the ancient art of fusing powdered glass to copper. Colorful alchemy at work. Materials provided

3 hrs | \$30 members | \$40 non-members



Silversmithing Basics

Learn the basics of silversmithing: cut, shape, pierce, solder, bezel set, and finish surfaces. Bench tools are provided. Silver cost is additional (by the ounce).

9 hrs | \$60 members | \$70 non-members



Bezel Set Stone

Semiprecious stones will be available, or bring your own. Sketch designs and layout before fabrication. Stones and silver are charged per each.

6 hrs | \$60 members | \$70 non-members



3D Printing & Laser for Silversmithing

We generate new textures and forms in metal, employing laser cut texture plates & the rolling mill; 3D printed patterns for sand casting & molds. Materials are charged by the oz.

6 hrs | \$60 members | \$70 non-member



Beginning Hydraulic Press

Make a silhouette die for draw forming in the hydraulic press. Cold connections for fabrication. Plexiglass dies & copper to form. Materials and tools provided.

3 hrs | \$40 members | \$50 non-members



Powder-Coat Pressed Forms

Use our dies or bring your own. We form shapes to powder coat, and fuse the powder to the metal. Cold connections to assemble small toys or jewelry.

3 hrs | \$30 members | \$40 non-members

WOODSHOP

EQUIPMENT & CAPABILITIES



Wood Working & General Fabrication

The woodshop is where traditional and emerging technologies intersect and help you develop your ideas. The scale of things traditionally made in the woodshop is big and can extend the possibilities of materials and processes in all other areas of the Maker Space. Woodworking is a craft, an art, and a technology.

Our woodshop is small but packed with tools and equipment, and we are here to help you realize your ideas for woodworking.



Table Saw

Precision aligned to cut and rip lumber yard wood. No recycled or damp wood allowed on the table saw as it triggers the saw stop.

**SawStop, 3HP,
36" fence, rails and
extension table**



Panel Saw

For cutting large sheets of wood to manageable sizes for wood projects. Safe and efficient. Cuts smooth with minimal chipping.

Milwaukee, 3HP



Band Saw

14" Throat, tilting table, fence and guard. Free form cutting made easy

GO555, 3HP



Power Miter Saw

Cross cut blade, adjustable and positive stops, accurate calibration.

Hitachi 3HP



Drill Press

Heavy Duty adjustable speed, powerful enough for a large hole saw.

GO555, 1 inch chuck



Hand Tools

Orbital, mouse, and belt sanders; routers; cordless drills; jig saw; brad gun; Kreg Jigs; and all necessary hand tools, including socket and wrench sets, clamps, and bar clamps.



WOODSHOP

CLASSES & WORKSHOPS

Wood Working & General Fabrication

We design workshops to teach the proper use of woodshop equipment and fabrication with wood as well as workshops to learn about materials or to master technical fabrication.

Workshops are offered on a rotating basis. In addition, if you organize a group of 4, we can offer a private workshop for your party.

Special workshops are offered with visiting artisans; suggestions are welcome.



Birdhouse

Support birds; they eat insects. Learn to use a cut list on the power miter saw; hole saw on the drill press; screw gun, and a brad nailer to fabricate. A good first project for kids & adults.

Materials provided | 2 hrs | \$20



Table

Make a sturdy side table. This is an excellent introduction to most equipment in the Woodshop: table saw, panel saw, power miter saw, brad gun, Kreg jig, & sanders. Materials provided.

4 hrs | \$60 members | \$70 non-members



Wooden Spoon

This is a workshop to learn about wood grain, carving, and shaping. We use the bandsaw, Sloyd knives, gouges, sanding jigs, wood rasps, and die grinders. Make a cooking spoon, a serving spoon, or a spoon as a metaphor. Materials provided.

3 hrs | \$40 members | \$60 non-members



Wooden Box

A project designed to learn different wood joints while making a box. Rabbit joint, groove fit, and dado or half cross lap. Laser ornamentation is applied. Materials provided.

3 hrs | \$50 members | \$60 non-members

CUSTOMIZING EQUIPMENT & CAPABILITIES



Customizing

The technologies for customizing are growing fast, as are the materials and surfaces you can customize and personalize.

Impressive results are within reach with some training on file types and the steps for moving correct file types to different printers and plotters.

The process is effortless but may take some time to get a good result and understand how best to apply each technology.



Dye Sublimation

Extremely versatile process of heat transfer to tumblers, fabric, any substrate with an acrylic surface.

Sawgrass SG1000



White Toner Transfer

With the digital white toner printer you are on your way to making beautiful products on any color substrate.

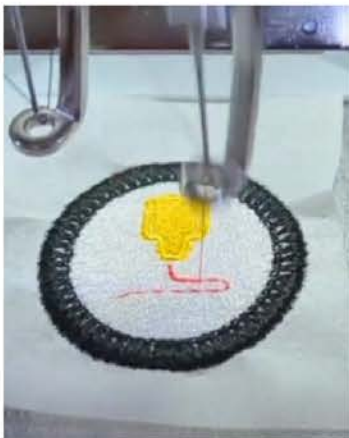
UNINET iColor



Heat Press

We have many kinds of heat presses - for flat substrate, ball caps, and mugs. Heat pressing transfers image decals and transfer vinyl.

Endura Press & Silver Bolt



Embroidery Machine

Embroider 4 color designs on ball caps, make badges, ultra fancy repairs.

Janome MB-4Se



Sewing Machine

Sew fast, sew multiple thicknesses, canvas, you name it you can sew it on this Singer workhorse.

Singer 591



Vinyl Cutter

Cut traditional vinyl for single color decals and lettering for signage. Also cuts heat transfer vinyl for applying decals on fabric.

**Cutting Plotters
28" & 60"**

CUSTOMIZING CLASSES & WORKSHOPS

Customizing

Customizing is a fun way to be creative. There is no end to the surfaces, shapes, or projects. Images are generated with toner or ink printers to transfer with a heat press onto different surfaces; enamel, metal, fabric, wood, and glass. And commercial multi-color embroidery too.

Start with designing in the Canva class in our business section, then sign up for one of our customizing workshops.



Mug or Tumbler Dye Sublimation

A quickstart class to show how to put photos from your smartphone into a template, print, and sublimate on a coffee mug.

2 hrs | \$20 members | \$25 non-members | upgrade to tumbler add \$5



Ruler & Bracelet Dye Sublimation

Aluminum blanks measuring 165 mm in length and 20mm or 35mm wide are provided - you fill them with images or colorful patterns & use the heat presses to dye sublimate your image to the aluminum blanks—great teacher gifts, stocking stuffers, or commemorative thingumajig.

2 hrs | \$15 members | \$20 non-members | additional blanks \$5 ea.



Customized T-Shirt with White Toner Print

Bring your own T-Shirt. Basic design in Canva is helpful but not required. This process is good for colorful images that are not excessively color dense of an image. Bring your own shirt.

2 hrs | \$15 members | \$20 non-members |



Machine Embroidery Basics

Learn the basics of machine embroidery using our Janome MB4-SE. We will digitize a simple design using the Embrilliance software suite and create a small patch.

2 hrs | \$5 members | \$20 non-members |

SMALL BUSINESS EQUIPMENT & CAPABILITIES



Small Business

Although we are not equipped for production runs, we have the equipment to help you make prototypes and functional models. We can also help with the initial design of your marketing collateral.

You can also make unique posters for business or home displays. Bind your own illustrated books or use this equipment to create one-of-a-kind art.



Large Format Printer

The PrismJet is capable of printing on a variety of materials. Examples of a few are banners, photo paper, sticker vinyl, window vinyl and canvas materials.

PrismJet 54



Business Card Cutter

Quickstart business cards for your new business. It also makes gift cards. We have a template, load your information & images, then cut them perfectly.



Booklet Maker

Prototype your small booklets, or a zine, make a small journal. The precision will make whatever you do look great.



Coil Binding Machine

Coil binding is good for journals, binding heavier paper, or binding documents and instructions. Coils form 2 " to 1/2 "



Paper Shear

Finally, a paper shear that will cut a half inch of stuff at once. Professional edges. We love this thing

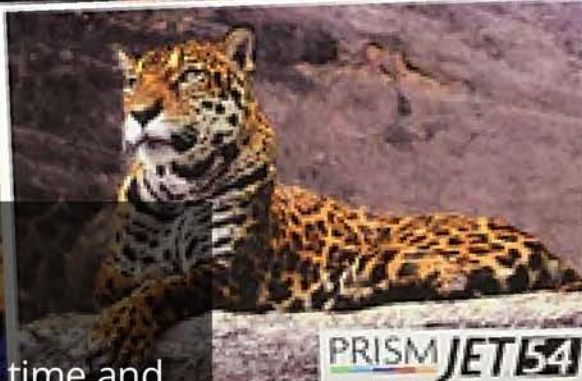


Digital Cameras

24 Megapixel mirrorless camera capable of still photography and 4K Videos.

**Canon M50 Mark II
Rode Wireless Go Mics
Gimbal Stabilizer**

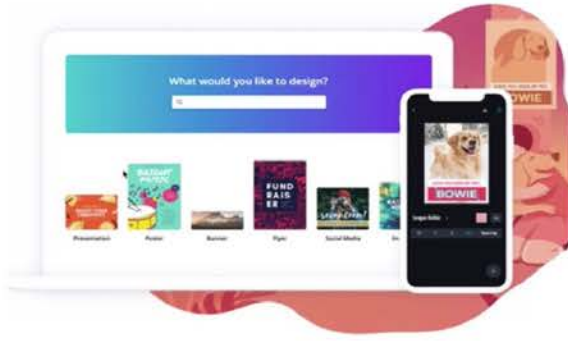
SMALL BUSINESS CLASSES & WORKSHOPS



Small Business

Starting your business on a shoestring budget can take time and effort. We can help ease that burden and show you how to make posters, banners, business cards, stickers, and all the marketing collateral you need to show your business to the world.

While we can't make these things for you we can teach you how to make them yourself.



Canva Basics Class

Want to learn the basics of Canva and how it can help your business create content for social media, flyers, handouts, business cards, and much more. Come to our quick class and learn how to get started.

2 hrs | Members free | \$10 non-members



Book Binding Projects

Learn to bind your own booklets, samples are made using Thermal Binding, Spiral Binding, and Staple Binding. Once you know the process you can start designing and telling your own story.

2 hrs | \$15 members | \$20 non-members



Designing Booklets or Zines

Design your own booklet or zine template. Then take a couple of weeks to write your descriptions, find your images, and tell your story. Return for a second session to put it all together and print your first draft. When you have it all perfect, you are ready to send it to the printer to print your booklet or zine. Three drafts are printed.

6 hrs | \$20 members | \$30 non-members



Large Format Printing

This class will give instructions on the use of the programs, file formats & correct photo resolution for the best output on the large format printer. The PrismJet is capable of printing on a variety of materials. A few examples of substrates are banners, photo paper, sticker vinyl, and canvas. Materials is charged by the foot.

2 hrs | \$40 members | \$60 non-members

MAKER SPACE 307 OPPORTUNITIES

- **Volunteer**
- **Teach**
- **Mentor**



Volunteer

There are many ways to volunteer at Maker Space 307, volunteer time to keep the shop open, volunteer as extra help at an event or fundraiser. Volunteer to teach a class or be a mentor. Volunteer your expertise!



Class/Workshop Instructor

Our classes and workshops are taught by visiting artists and crafters, & people from our community. There are so many people with special knowledge to make things and if we don't know about you - please come and tell us about what you are making.



Makerspace/Project Mentor

One-on-one learning with a mentor is a rare thing - but nothing has replaced this time-honored way of learning a skill. We want to encourage this process. If you are looking for a mentor or a mentee - talk to us - we can find someone for you.

MAKER SPACE 307

SPONSORSHIP OPPORTUNITIES

There are many opportunities for sponsorship at Maker Space 307. Sponsored programs can be a community engagement activity as a fun way to gather information from constituents or raise awareness. We have helped many organizations develop engagement opportunities.

Your business could provide the materials for a class or workshop. For example, a business owner recently sponsored a special workshop as employee appreciation and all of the staff enjoyed some time making geode tie-die shirts.



If you would like to be a sponsor but are unsure what that could be, talk to us—we can help with ideas! 

Here is a short, but not comprehensive, list of Sponsorship ideas:

- Provide the materials for a workshop
- Provide food for an event
- Sponsor a fundraiser
- Provide staffing for an event from your office
- Sponsor a Lego event, or pinewood derby
- Sponsor our annual DIY Halloween Party
- Sponsor the Spoon Olympics.
- Sponsor a new piece of equipment 
- Sponsor a Mother's Day event
- Sponsor Earth Day
- Sponsor a series of workshops

MAKER SPACE 307

DONATIONS

ARE ALWAYS APPRECIATED

Please send monetary donations to the following address:

**Maker Space 307
2255 Brunton Ct, Ste A
Riverton, WY 82501**

If you are interested in making a non-monetary donation please contact David Maulik to discuss it further.

email: david@makerspace307.org

phone: (307) 240-3134

DONATE ELECTRONICALLY



Donate using PayPal by scanning the QR code or go to makerspace307.org and click "Donate" in the upper left of the page.

MAKER SPACE 307

COME VISIT US

We are located in Central Wyoming College
Industrial Park in Riverton.

Our hours:

Monday - 10 - 5

Tuesday - 10 - 7:30

Wednesday - 10 - 6

Thursday - 10 - 7:30

Friday & Saturday 10 - 6

By appointment call 307-240-3134.



MEMBERSHIPS

Apply online www.makerspace307.org/membership

Scan for membership



MAKER SPACE 307

MEMBERS, SPONSORS & VOLUNTEERS



FOR YOUR SUPPORT

