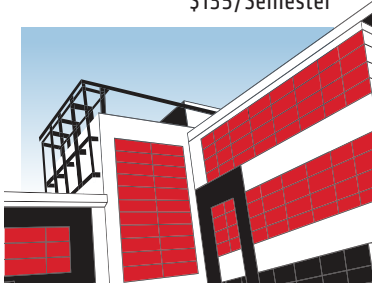


RDC NANCY RICHARDSON DESIGN CENTER COLORADO STATE UNIVERSITY

- PROTOTYPE
- WOOD
- METAL
- IMAGING
- IDEATION

RDC Lab Access Membership:
\$135/Semester



RDC Lab Access Membership grants immediate availability to our online training and equipment reservations. Lab users are able to work during open lab hours with RDC staff available to assist in operations. The following lists membership benefits and material allotments included with membership. Use beyond such is provided at additional cost. Personal protective equipment (PPE) is provided at no cost within each lab; specialty PPE should be brought by lab users.

Visit <https://rdc-colostate.nbsstore.net/lab-memberships> or scan the QR code to start your membership today!

Equipment	Included with Access Membership	RDC Provides	Lab User Provides
Laser Cutters <i>2' x 4' max</i>	Unlimited Use	Software licenses to Adobe Creative Suite, Universal Laser Cutter UCP software	Material to be cut/etched and Adobe Illustrator file
Vinyl Cutter <i>27.5" max width</i>	Unlimited Use	Cutting tool	Finished digital drawing
Vinyl Printer and Cutter <i>54" max width</i>	1 linear ft.	Software licences to Adobe Creative Suite and VersaWorks RIP software, limited paper and vinyl media, printer ink, cutting tool	PDF in RGB color format, specialty print media
UV Ink Printer <i>13" x 30" x 4" max</i>	1 square ft.	Software licenses to Adobe Creative Suite and VersaWorks RIP software, UV ink	PDF in RGB color format, material to be printed on
Direct to Fabric Ink Printer <i>75" max width</i>	1 linear yd.	Limited fabric selection, textile ink	PDF or TIFF in RGB color format, specialty fabric
Dye-Sublimation Ink Printer <i>64" max width</i>	1 linear yd.	Limited fabric selection, transfer paper, dye-sublimation ink	PDF or TIFF in RGB color format, specialty fabric or polyester coated item to be dye-sublimated
Sewing Machines	Unlimited Use	Basic needle and thread selection	Fabric, specialty thread
Embroidery Machine	225 sq in backing, 100,000 stitches	Software licenses to Design Studio Pro and Melco OS; basic needle, thread, backing, topping, and bobbin selection	Fabric; specialty thread, backing, and topping
Quilting Machine <i>10' max width</i>	Unlimited Use *	Basic needle, thread, and bobbin selection	Fabric, batting, specialty thread
Seam Welder	Unlimited Use	Basic horn and anvil selection, PPE	Material to be welded
Filament 3D Printers <i>13.75" x 12.5" x 12.5" max</i>	250 g.	Slicing softwares Bambu Studio, Prusa Slicer, and IdeaMaker software license; various filaments	STL or OBJ 3D model file, any specialty filament
Resin 3D Printers <i>6" x 3" x 6.5" max</i>	25 ml.	Slicing software Chitobox, various resins, PPE	STL or OBJ 3D model file, any specialty resin with tank
3D Scanner	Unlimited Use	Software licenses, computer support	Object to scan, digital file storage
Clamshell Heat Press <i>17" x 20" max</i>	Unlimited Use *	Tissue paper, PPE	Item to sublimate
Design Thinking Laptops	Unlimited Use	Software licenses for a wide variety of used programs through the labs and Design Thinking curriculum	Digital files, digital file storage
Electronics Benches	Unlimited Use	Power supply, oscilloscope, solder, soldering iron, soldering vent fan, basic hand tools	Electronics components

PROTOTYPE

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WOOD

METAL

	Equipment	Included with Access Membership	RDC Provides	Lab User Provides
WOOD	Table Saw	Unlimited Use	Wide blade selection, breaks, sleds, jigs, push sticks, dust collection, PPE	Wood, fasteners, finishing materials
	Jointer	Unlimited Use	Push sticks, knife replacement, dust collection, PPE	Wood, fasteners, finishing materials
	Planer	Unlimited Use	Push sticks, knife replacement, dust collection, PPE	Wood, fasteners, finishing materials
	Band Saws	Unlimited Use	Blades, brakes, dust collection, PPE	Wood, fasteners, finishing materials
	Miter Saws	Unlimited Use	Blades, dust collection, PPE	Wood, fasteners, finishing materials
	Panel Saw	Unlimited Use	Blades, dust collection, PPE	
	Scroll Saw	Unlimited Use	Blades, PPE	Wood, fasteners, finishing materials
	Drill Press	Unlimited Use	Wide bit selection, PPE	Specialty bits, wood, fasteners, finishing materials
	Sanding Machines	Unlimited Use	Replacement sand paper, dust collection, PPE	Wood, fasteners, finishing materials
	Sand Blaster 42" x 24" x 24" max	Unlimited Use	Blast medium, PPE	Wood, fasteners, finishing materials
	Lathe	Unlimited Use	Tooling, work holding fixtures, tool sharpening equipment, PPE	Specialty tooling, wood, fasteners, finishing materials
	Router Table	Unlimited Use	Wide router bit selection, dust collection, PPE	Specialty bits, wood, fasteners, finishing materials
	Domino Buche Sortiment	Unlimited Use	Wide cutter and domino size selection	Wood, fasteners, finishing materials
	Hand Tools	Unlimited Use	PPE	Wood, fasteners, finishing materials
CNC Router 5' x 10' max	2 hours * <i>With RDC provided tooling. Unlimited use with tooling provided by lab user.</i>	Specialized software: CAD/CAM, waste board for bed, tooling, work holding fixtures, precision measurement tools: calipers, rulers, dial test indicators, and tool setting equipment	Material to be cut, finished digital drawing	

	Equipment	Included with Access Membership	RDC Provides	Lab User Provides
METALS	MIG Welders	2 hours *	Welding wire, tips, shielding gas, wire snips, wire brush, nozzle cleaner, layout tools, PPE	Metal, fasteners, finishing materials
	TIG Welders	2 hours *	Welding wire, replacement tips, shielding gas, wire snips, wire brush, and layout tools, PPE	Metal, fasteners, finishing materials
	Spot Welder	Unlimited Use	PPE	Metal, fasteners, finishing materials
	Welding Booth	Unlimited Use	Clamps, measuring tools, ventilation, PPE	Metal, fasteners, finishing materials
	Oxy Fuel Torch	1 hour *	Tips, oxygen and fuel gases, PPE	Metal, fasteners, finishing materials
	Plasma Cutter	1 hour *	PPE	Metal, fasteners, finishing materials
	Band Saws	Unlimited Use	Vertical and horizontal band saw blades, cutting oil, PPE	Metal, fasteners, finishing materials
	Cold Saw	Unlimited Use	Coolant, blades, PPE	Metal, fasteners, finishing materials
	Tile Saw	Unlimited Use	Water, blades, PPE	Tiles, fasteners, finishing materials
	Angle Grinder	Unlimited Use	Various cutting, sanding, and grinding discs; wire wheels; PPE	Specialty bits and/or tooling, metal, fasteners, finishing materials
	Bench Grinder	Unlimited Use	Wheels, PPE	Metal, fasteners, finishing materials
	Grinders	Unlimited Use	Belts and discs, PPE	Metal, fasteners, finishing materials
	Drill Press	Unlimited Use	Wide bit selection, coolant, cutting oil, PPE	Metal, fasteners, finishing materials
	Iron Worker	Unlimited Use	Cutting oil, PPE	Metal, fasteners, finishing materials
	Hydraulic Sheet Shear	Unlimited Use	Blades, cutting oil, PPE	Metal, fasteners, finishing materials
	Manual Shear	Unlimited Use	Blades, cutting oil, PPE	Metal, fasteners, finishing materials

	Equipment	Included with Access Membership	RDC Provides	Lab User Provides
METALS	Magnetic Brake	Unlimited Use	Clamps, PPE	Metal, fasteners, finishing materials
	Slip Roller	Unlimited Use	PPE	Metal, fasteners, finishing materials
	Lathe	Unlimited Use	Tooling, coolant, cutting oil, PPE	Specialty tooling, metal, fasteners, finishing materials
	Spray Booth	Unlimited Use	Filters, protective paper/tarps, PPE	Object, aerosols
	Tap and Die Set	Unlimited Use	PPE	Metal, fasteners, finishing materials
	Hand Tools	Unlimited Use	PPE	Metal, fasteners, finishing materials
	Air Compressor	Unlimited Use	Air hoses, PPE	Approved specialty pneumatic tools
	CNC Mill 24" x 20" x 4" max	2 hours * With RDC provided tooling. Unlimited use with lab user provided tooling.	Specialized software- CAD/CAM, waste board for bed, tooling, work holding fixtures, precision measurement tools- calipers, rulers, dial test indicators, and tool setting equipment	Material to be cut, finished digital drawing
	Calendar Heat Press	Unlimited Use	Run by lab staff on a weekly basis for fabric heat setting - tissue paper, PPE	Fabric to be pressed

	Equipment	Included with Access Membership	RDC Provides	Lab User Provides
IMAGING	Screen Printing Press	15 prints	Up to three screens, water-based ink, cleaning supplies, aprons, press access, squeegees, PPE	Specialty inks
	Exposure Unit	Unlimited Use	Emulsion, screen/scoop coater, transparency paper, black ink printing to produce mask, PPE	Design file to be exposed
	Washout Station	Unlimited Use	Emulsion remover, dehaizing agent, cleaning supplies, sink, power washer, PPE	Screens for washout
	Dip Tank	Unlimited Use	Dip solution, PPE	Screens for washout
	Flash Dryer	Unlimited Use	PPE	Completed prints

	Equipment	Included with Access Membership	RDC Provides	Lab User Provides
IDEATION	Room Scale VR RDC RM 120	Unlimited Use	HTC Vive Pro headset and controllers, VR workstation, RDC Steam	VR files, digital file storage
	Standalone VR	Unlimited Use	Headsets, controllers, laptop	VR files, digital file storage

* The RDC reserves the right to charge lab users for excessive use of consumable materials.

Learn More



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