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3D Printer - Polyjet

3D Printer - FDM

Thermoformer

Laser Cutter

сис-гатре

CNC - Router

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**MATERIALS • TOOLS • PROCESS** 

**WORKSHOP LOCATIONS** 

**D-CONSTRUCTED** 

### WORKSHOPS

### ANNX | Landscape Architecture Annex Building

 ${\sf SALA}\,|\,{\sf School}\,{\sf of}\,{\sf Architecture}\,\,{\sf and}\,{\sf Landscape}\,{\sf Architecture}$ 

BRIM | Brimacombe Building AMPEL | Advanced Materials and Process Engineering Lab, Computer Science

CAWP | Center for Advanced Wood Processing BSC | Bachelor of Science - Forestry Sciences

**CEME | Civil + Mechanical Eng. Building** MECH | Mechanical Engineering

CHEM | Chemistry (D Block) CHEM | Chemistry

DSOM | Dorothy Somerset Building AHVA | Art History and Visual Art + Theory

EDC | Wayne + William White EDC MECH | Mechanical Engineering

**FPI | FP Innovations** 

**FRWO | Frederic Wood Building** AHVA | Art History and Visual Art + Theory

HENN | Hennings Building ENGPHYS | Physics Engineering and Astronomy

LASR | Frederic Lasserre Building SALA | School of Architecture and Landscape Architecture

MCLD | Macleod Building ECE | Electrical and Computer Engineering

MCML | MacMillan Building SALA | School of Architecture and Landscape Architecture

#### THIS TOOL-MAP

WHY MAKE THIS MAP? An interdependence of 'excellent designing' and 'excellent making' is and has been a core value of design pedagogy at UBC SALA. Contemporary 'making' practices and technologies (3-d printing, laser-cutting, robotic milling, etc.) have changed how designers visualize, evaluate, and construct the built environment. These tools extend our reach and inform our design processes. Increasingly the experience SALA offers students depends on providing better access to a wide variety of digital fabrication tools and techniques.

The members of SALA are driven to put more tools in the hands of young designers, and to increase opportunities for students to have access to meaningful design fabrication experiences, training, and infrastructure. We are also motivated to increase opportunities for UBC students to work with each other in a true interdisciplinary manner. We built this map and associated guide to support this mission.

ANNX BRIM CAWP CEME CHEM DSOM DSOM DSOM FPI FPI FRWO HENN HENN MCML **PLASTICS Bead Blaster** 0 CNC - Drill 0 CNC - Lathe CNC - Micro-drill 0 CNC - Mill **CNC** - Router **Die Cutter** 0 Drill 0 0 0 0 0 0 0 **Drill Press** 0 0 0 0 Heat-gun 0 Laser Cutter Milling Machine 0 0 Router 0 Sander 0 0 0 0 0 0 Saw 0 0 0 0 0 0 Vacuum Formers 

MATERIALS | TOOLS | WORKSHOPS

#### **POLYMERS**

3D Printer - FDM	•	•	•				•	•	•	
3D Printer - Polyjet								0		

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## FABRIC

Sewing Machine

### CERAMICS

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• = further explanation in D-Constructed Tool Glossary

**o** = not mentioned in D-Constructed Tool Glossary

WOOD	ANNX	BRIM	CAWP	CEME	CHEM	DSOM	EDC	FPI	FRWO	HENN	LASR	MCLD	MCML
Bead Blaster						0							
Bench Grinder		0											
<b>Boring Machine</b>			0										
CNC - Drill		0	0										
CNC-Lathe		•											
CNC - Mill		•								•	•		
CNC - Router			•								•		
Die Cutter											0		
Drill			0								0	0	
Drill - Hinge			0										
Drill - Press			0			0					0	0	
Dust Table			0										
Edge Bander			0										
Grinder			0			0							
Heat-gun									0		0		
Joiner		0	0			ο					0		
Laser Cutter			•						•		•		•
Lathe Machine		0				0							
Milling Machine		0				0							
Mortise			0										
Nail-gun		0										0	
Planer			0			0					0		
Router		0											
Sander		0	0			0					0		
Saw		0	0			ο					0	0	
Shaper			0										
Shearing Lathe												0	
Spindle Moulder			0										
Veneer Guillotine			0										
Veneer Stitcher			0										

The "University of British Columbia D-Constructed Map" introduces students to some of the shop resources available on the West Point Gray campus. The outside cover of this document is a map of the UBC campus with key buildings and shops identified. The inside cover contains contact information for shops identified on the map and a chart that lists common materials and the tools that might be used to modify them. The emphasis of the document is on digital tools (The "D" in "D-Constructed"). This document was produced by the UBC School of Architecture and Landscape Architecture with the generous support of a Large TLEF Grant titled "Integrated Design Learning through Making and Building @ SALA".

UNIVERSITY OF BRITISH COLUMBIA



MATERIALS • TOOLS • PROCESSES

METAL	ANNX	BRIM	CAWP	CEME	CHEM	DSOM	EDC	FPI	FRWO	HENN	LASR	MCLD	MCML
Bead Blaster						0							
Bench Grinder		0											
Brazing Torch						0							
Buffer						0							
Brake						0							
Drill - Press						0							
Grinder			0			0							
Lathe Machine			0			0							
Milling Machine						0							
Oxy-Fuel Torch						0							
Plasma Cutter						•							
Roller						0							
Saw		0	0	ο		0			0		0	ο	
Shear						0							
Spot-welder						0						0	
Water-jet Cutter				•									

# GLASS

Bead Blaster				0				
Glassblower			0					
Water-jet Cutter		•						

## UNDEFINED

Drone						0	
KUKA Robotic Arm		0					
VR Equipment		•					

