

Studio Equipment Checklist

Main Studio at 1060 Heinz Avenue

Intaglio / Relief / Monotype:			
American French Tool etching presses (3):			
☐ bed size 40 x 70"			
☐ bed size 40 x 70"			
☐ bed size 48 x 78"			
☐ Charles Brand etching presses (2):			
☐ bed size 30 x 50"			
☐ bed size 32 x 52"			
☐ Griffin etching press:			
☐ bed size 21.75 x 40"			
Lithography:			
☐ Griffin manual lithography press o bed size 26.5 x 45.5"			
☐ Takach motor-driven lithography press○ bed size 33 x 56.5"			
☐ lithographic stones ranging in size from 10 x 14" to 28 x 32" ○			
☐ metal printing base for plate lithography: 32 x 51"			
Letterpress:			
☐ Vandercook SP15			
 Maximum form size 14 x 18" 			
Maximum printable area 12 x 15"Maximum sheet size 14 x 20"			

_eı	ter	oress (d	cont):
		Vande	rcook SP20
		0	Maximum form size 19 x 26"
		0	Maximum printable area 17 x 22"
		0	Maximum sheet size 19 x 28"
		Nolan	Manual Hand Proofing Press (this press can be
		availab	ole at 1060 Heinz Avenue and 2990 San Pablo)
		0	maximum 12 x 20" form size (approx)
		0	maximum 13.25 x 24" paper size
		Printing	g bases
			Patmag base (magnetic): 12 x 16"
			Bunting base (magnetic): 8 x 11 1/4"
			Boxcar base (not magnetic): 12 x 16"
			,
Sci	reer	n Printi	ng:
		Vacuur	m table with arm (manual printing):
		0	Vacuum area 36" x 48"
		0	Maximum screen size 50 x 72" (or 48 x 60" if using the
			vacuum area)
		Cincin	nati vacuum table with arm (manual printing):
		0	Vacuum area 27 x 43"
		0	Maximum screen size 42 x 64"
		Portab	le clamp boards (screen printing surfaces)
		Backlit	washout booth
		0	Inside sink dimensions: 24" D x 44" W x 44" H
		Squee	gees for hand printing (various durometers)
		0	sizes range from 4 inches to 32 inches
		Squee	gees for use with one-arm printing table (75 durometer
		0	sizes: 12 inches, 16 inches, 20 inches, 24 inches, 32
			inches and 36 inches
Ξx	pos	ure Ro	om:
		Amerg	raph Advantage 150 Screen exposure unit
		0	Maximum outside dimensions of silkscreen 30" x 40"
		Anders	son Vreeland Orbital VIII Photo-Polymer Platemaker
		0	Maximum plate size A2 / 16" x 23"

Photo Dark Room:	Digital Lab (cont'd):		
☐ Enlargers:	Scanners:		
☐ Beseler 23C II	Imacon Flextight 848 Virtual DrumScanner (scan films up to		
☐ Beseler 45MXT with dichro 45 color head	4"x5", reflective materials up to A4)		
☐ Beseler 45 MX II (cold enlarger)	☐ Epson 10000 XL Photo Flatbed Scanner (12"x 17")		
☐ NuArc FT26MH flip-top vacuum exposure system (single point	☐ Epson 4490 Photo Flatbed Scanner (Letter size)		
metal halide bulb): used for photo-intaglio, photo-litho and			
alternative photo processes. Maximum plate / paper size	Other studio equipment:		
approximately 18 x 24" or 20 x 22"	☐ Work tables		
	o (3) in main studio		
	o (1) in back studio		
Acid Room:	Challenge 265 manual paper cutter - for cutting stacks of		
☐ Etching chemistry:	paper		
 Edinburgh Etch (Ferric Chloride and Citric Acid) for 	Maximum paper size: 26.5 x 40" Maximum thickers as afragram at all 2.5"		
copper	Maximum thickness of paper stack: 3.5" Maximum thickness of paper stack: 3.5"		
Copper sulfate (for electro-etching)	☐ Kutrimmer 1058 - for trimming polymer plates		
☐ Nitric acid (for stone lithography and spit byte)	o cutting length 22 ½ inches		
☐ Trays for etching (various sizes)	☐ Book press (nipping press)○ Platen size: 9 x 14"		
☐ Sodium bicarbonate for neutralizing acid			
	☐ Plate shear for metal plates up to ¼ inch thick:○ Maximum width of plate: 36.5"		
Digital Lab:	·		
	☐ Aquatint boxes:○ Box for use with pre-ground, powdered rosin:		
☐ Computer stations (4)	maximum plate size (approx) 44 x 56"		
Computer Software:	 Box for use with lump rosin: maximum plate size 		
☐ Adobe Creative Suite	(approx) 14 x 20"		
Other:	☐ Tear bars (up to 48" long)		
Other.	☐ Cutting mats		
Printers:	_ 3		
☐ Epson 9900 (44" wide, photo and matte black inks)			
☐ Epson p8000 (44" wide, matte black ink)			
☐ Epson p6000 (24" wide, matte black ink)			
☐ Epson 4800 (17" wide, matte black ink)			
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Consumable Supplies

Main Studio at 1060 Heinz Avenue

Please communicate with us about any supplies (such as inks / chemicals / materials) not listed here that you'll use for class. It is important to us to provide Safety Data Sheets (SDS) for all materials being used in the studios; Kala staff will collect this information and make it available in our studio SDS binders. We will also advise teaching artists on suitable chemical storage in our facility.

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General:				
☐ Rags				
 D*solve or SoySolv II (Vegetable Cleaning Agents / bio-based solvents; alternatives to mineral spirits) 				
☐ Mineral spirits				
☐ Isopropyl Alcohol 99%				
☐ All-purpose cleaner (Dr. Bronner's Sal Suds or Simple Green				
☐ Newsprint				
Etching / Intaglio:				
☐ Etching chemistry				
 Edinburgh etch (Ferric Chloride + citric acid) 				
Copper sulfate (for electro-etching)				
☐ Powdered rosin				
Lump rosin				
☐ Soda ash (sodium carbonate)				
☐ Vinegar				
☐ Soy Sauce				
☐ Whiting (calcium carbonate)				
☐ Sodium bicarbonate (baking soda) for neutralizing acid				
Lithography:				
☐ Cheesecloth				
☐ Lithotine				
☐ Asphaltum				

Lithogı	raphy (cont'd):
	Gum arabic
	Nitric acid
	Acetic acid 1:10
	Phosphoric acid
	Magnesium carbonate
	Powdered rosin
	Talc
	Tympan grease
	Shop mix black ink for leather roller
	Plastic wrap (for wrapping leather roller)
	Carborundum for graining lithographic stones: 80, 100, 150,
	180, 200, 220 and 280 grit
Screen	printing:
	Photo-emulsion (Ulano 935 WR)
	Emulsion remover
	Silkscreen de-hazer (available on request from Print Studio
	Manager)
Letterp	oress:
-	Vanson rubber-based Ink: Black (10850), Process Blue, Warm
	Red, Yellow, Opaque white, Transparent white
	Magnesium carbonate
	Crisco
Photo (dark room:
	Disposal drums for fixer and developer
	Dioposal alamo for fixor aria astolopol

Studio Equipment Checklist

Community Studio at 2990 San Pablo Avenue

Kala's community studio can be configured to include 2 smaller-sized printing presses suitable for intaglio / relief / monotype and one additional table-top proofing press for relief / letterpress printing.

Some portable resources from the main studio at 1060 Heinz Avenue (e.g. wood type) can be transported to the San Pablo Avenue studio for class use.

While there are large windows that can provide excellent air-flow, the community studio is not equipped with a ventilation system; whenever possible we use only materials that are AP certified non-toxic. For printmaking processes in this space, we promote the use of inks & materials that do not require solvent clean-up.

Studio equipment:
☐ Work tables
☐ Studio sink
☐ Rulers (up to 12" long)
☐ Cutting mats
☐ Tear bar (1)
☐ 24" T-Square
☐ Guillotine paper cutters (for cutting single sheets of paper
 Maximum paper size: 12 x 14"

Presses for intaglio / relief / monotype:				
☐ Etching presses (2):				
☐ bed size 18 x 30"				
☐ bed size 17 x 32"				
Press for relief / letterpress:				
☐ Nolan Manual Hand Proofing Press (this press can be				
available at 1060 Heinz Avenue and 2990 San Pablo)				
 maximum 12 x 20" form size (approx) 				
 maximum 13.25 x 24" paper size 				

Personal Protective Equipment

These items are available in the main studio at 1060 Heinz Ave

- Re-usable Ear protection: 3M Optime™ 98 Earmuff (for use with the pressure washer)
- Disposable earplugs (for use with the pressure washer)
- Cloth aprons
- Chemical-resistant PVC/Polyester apron: (Tingley® A41008 SafetyFlex®), for use in the acid room

Items below are available for teaching artists & class participants upon request.

Reusable gloves:				
	Black Neoprene (SHOWA Best Gloves Chloro Flex 723 brand) recommended for use when handling: nitric acid, ferric chloride, copper sulfate, photo chemicals. Also suitable for photo emulsion, photo emulsion remover, mineral spirits, isopropyl alcohol, denatured alcohol, liquid etching grounds, lead type, leading and all soiled rags.			
	Green Nitrile (Ansell Solvex 37-175 brand) recommended for use when handling: ferric chloride, copper sulfate, photo emulsion, photo emulsion remover, mineral spirits, isopropyl alcohol, liquid etching grounds, lead type, leading and most soiled rags. • Nitrile gloves DO NOT protect from acetone, xylol, or corrosives. • Do not wear nitrile gloves with nitric acid. Use the neoprene gloves described above.			
Dispos	Disposable / single-use gloves:			
	Green nitrile gloves (Ansell Touch 'N' Tuff brand) recommended for use when handling: mineral spirits, isopropyl alcohol, denatured alcohol, liquid etching grounds, most soiled rags (except those used to clean up ferric chloride), lead type & leading. Also suitable for handling oil- and rubber-based inks. • Nitrile gloves DO NOT protect from acetone, xylol, or corrosives. • Do not reuse disposable nitrile gloves. Use once, then dispose. • Change disposable gloves every hour during heavy, continuous use of materials. • Do not wear nitrile gloves with nitric acid. Use the neoprene gloves described above.			
	goggles: Chemical splash goggles (MCR Safety Indirect Vent 2235R brand) recommended for use when: pressure-washing silkscreens, dispensing			
	etching chemistry			