

USEL Equipment and Tools List

(as of 10 July 2019)

Located in Engineering Experiential Learning Lab CYT 1002

Equipment	Qty.	Description
3D Printers	3	TierTime UP BOX 3D Printer ABS + PLA
Laser Cutter	1	HSG Z1390 Laser Cutter
CNC Foam Cutter	1	Anleitung CUT 2510S
Benchtop Vise	3	IRWIN No. 6 Mechanics' Vise 6" / 150 mm Jaw Width 32 kg / 71 Lbs
Oscilloscopes	4	Tektronix Oscilloscope 100 MHz, 2 channelTBS11102B
Portable Cordless Drill	2	BOSCH Cordless Drill GSR 1440-LI Professional
Soldering irons	4	HAKKO Red
Digital multi-meters	10	UNI-T UT61 Series
Soldering Stations	5	HAKKO FX-888D Soldering Stations
Refrigerator	1	Samsung RT22FARAD 181L Refrigerator Capacity + 53L Freezer Capacity
Orbital Shaker	1	
Incubator	1	Lovibond model TC1358, 135 L, 2-40 deg. C
Hotplate	1	STUART hotplate with magnetic stirrer, model UC152 with glass ceramic plate 15 cm x 15 cm; max temp. 450C, 100-2000 rpm; 15L. Temperature Control Unit 50-200 deg C.
Hacksaws	4	CK T0905 Professional Hacksaw, 300mm
Oven	1	Yiheng drying oven #DHG9240A, 2 shelves
Mantle	1	GLAS-COL spherical flask mantle, 100B TM107, 500ml
Electronic Balance	1	SHINKO model GS1202, 1200x0.01g
Vortex Genie	1	Vortex Genie, 3 platforms and Pop-off cup
Leap Motion Controller	3	Leap Motion Controller
Kinect Sensor	3	Kinect Sensor and Xbox 360 gaming console
IAQ monitor	1	Internal Air Quality Monitor - TSI Model 7545
Sound and Vibration monitor	1	G.R.A.S. Sound and Vibration Monitor type 12AX with microphones
Resin Infusion Catch Pot	1	Easycomposites Professional Resin Infusion Catch-Pot
Cordless Multitool	1	Milwaukee Brand 12v Multi-tool Sander and Cutter
Hacksaw, Cordless	1	Milwaukee Brand Cordless Hackzall Recipricating Saw
Cordless Drills	3	Milwaukee Brand Hand Drills 12v(x2) and 18v(x1)
Compact Bandsaw, Cordless	1	Milwaukee Brand 12v Cordless Compact Bandsaw

Cordless Screwdrivers	2	Milwaukee Brand 4v (x1) and 12v (x1) Cordless Screwdriver
Compact Vacuum, Cordless	1	Milwaukee Brand 12v Cordless Compact Vacuum
Cordless Blower	2	Milwaukee Brand 18v Cordless Blower
Cordless Hex Impact Driver	1	Milwaukee Brand 12v Cordless Hex Impact Driver
Cordless Screw/Hex Driver	1	Milwaukee Brand 12v Cordless Screw/Hex Driver
Cordless Jigsaw	1	Milwaukee Brand 12v Cordless Jigsaw
Cordless Vacuum 7.5L	1	Milwaukee Brand 18v Cordless Vacuum Cleaner
Angle Grinder, Cordless	1	Milwaukee Brand 18v Fuel Brushless Angle Grinder
Straight grinder	1	Milwaukee Brand 12v Straight Grinder
Cordless Angle Grinder	1	Makita DGA408Z Cordless Angle Grinder
Cordless Planer	1	Makita DPK1802Z Cordless Planer
Cordless Stapler	1	Makita DST221Z Cordless Stapler
Cordless Trimmer	4	Makita DRT50 Cordless Trimmer
Cordless Multi-tool	4	Makita TM30DZKX1 Cordless Multi-tool
Cordless Jigsaw	4	Makita JV103DC Cordelss Jigsaw
Cordless Pin Nailer	4	Makita PT354DZ Cordless Pin Nailer
Cordless Recipro Saw	1	Makita JR103DC Cordless Recipro Saw
Cordless Hammer Driver Drill	4	Makita HP332DZ Cordless Hammer Driver Drill
Table Saw	1	Makita 2704 Table Saw
5MHz Function Generator	2	AFG 2005 GW Instek Arbitrary Function Generator

Other commonly used hand tools will also be available in the lab

Hand Tools	Qty.	Description
Mitre Saw	1	Makita Mitre Saw