LIST OF MATERIALS/EQUIPMENT FOR BEGINNING STUDENTS – LEVEL 4 2019-2020

**L4 Equipment List 2019-20**

Student Union Art Shop at BSOAD | Parkside Spectrum : Fine Arts and Graphics Materials Harris Moore

ebay

Amazon

**Note:** some items may be available together as deals at reduced prices; you may also obtain cheaper deals via ebay or amazon.com, or by buying together in groups. You may ask older students who may be selling their equipment at discounted prices. You may also re-sell some of your equipment in 2-3 years once your

own skills are more defined.

The below list is prescriptive and you are not required to purchase everything on the list. It would be prudent to wait until you have your student cards (and therefore access to student discount) before you buy the equipment for your course

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| **item** |
| **DUE FOR INDUCTION WEEK Monday, 16th SEPTEMBER, 2019:** |
| One A3 sketch pad or you can use an A2 sketchpad if you prefer |
| A5 unlined sketchbook or unlined bound journal for note taking and sketching |
| Wooden sketching pencils: 4B, 2B, B, HB, [or one set] |
| Set of black felt tip pens [at least 1 broad and 1 fine tip] for sketching and note-taking |
|  |
| **DUE FOR CLASS TUESDAY, 24th SEPTEMBER, 2019 *(and on all Tuesdays and Fridays for studio except where stated otherwise):*** |
| A3 or A2 sketch pad *[including the one for 16th Sep]*  You can use an A2 sketchpad if you prefer this size |
| Note pad with lines |
| Wooden sketching pencils: 4B, 2B, B, HB, [or one set] *[Same as for 19th Sep]* |
| Handheld pencil sharpener |
| 2 Plastic erasers (e.g. Staedtler Mars) |
| One roll of masking tape  One roll of double sided tape |
| One box of push-pins |
| Metal ruler (30cm) |
| Scalpel (cutting knife) and blades |
| Cutting Mat - A2 or larger (preferably self-healing) |
| Cardboard and other modeling materials |
| set of black felt tip pens [at least 1 broad and 1 fine tip] for sketching and note-taking |
| kneadable eraser (e.g. Koh I Noor Kneadble Putty Rubber) |
| Set of Rotring architectural drawing pens (0.5, 0.13, 0.25 to start) |
| Fixative spray for pencil, charcoal, drawings |
| A2 pad of tracing paper |
| Two x A2 portfolio cases (with rings and plastic wallets) |
| Goggles for workshop |
| T-Square |
| TWO 2mm DRAUGHTING Leadholders in 2 different colours |
| Selection of 2mm leads (mixed grades : 4H, 2H, HB, B, 2B - at least 2 each) you may buy open-stock leads or different grades to compile your own set |
| White plastic scale people (1:50 and 1:100) for model photography |
| 2 mm lead sharpener |
| Set Square Triangles [2 Triangles: one 45x45 degrees; and one 30x60 degrees] |
| Optional: Adjustable Triangle |
| Optional: Professional Geometry Set Square |
| **Architectural** Scale (triangular scale rule)  **Please note. Ruler must have scales 1:100, 1:50, 1:2, 1:200, 1.5, 1:500, 1:1250, 1:2500** |
| Compass set |
| Measuring tape (for site visits) 5m minimum length |
| Hard hat for site visits |
| USB with name tag |
| Solvent free UHU glue |
| Swann Morton scalpel and blades (model 10A) |
| Mechanical drawing pencil with leads |
| The Metric Handbook, June 2007, Adler, David |
| Stanley knife |

**Laptops, Digital and Software Equipment**

**All courses:**

**Recommended brands / models** – Ultimately it is up to the student to take the minimum / recommended specs to a computer shop and to find a machine that best fits their needs. However, our current students tend to prefer the following:   
Dell XPS – Perfect all rounder, very powerful, very attractive, anti glare screen, reasonably priced for the power available (Dell offer educational discount also)

HP Pavillion / Envy – Good machines, and can suit lower budgets.

MSI laptops – These are best for those wishing to purchase a high spec laptop on a lower budget. However they tend to be a bit bigger / heavier.

PC Specialist – These are custom computers / laptops that can be configured to a desired spec for a lower price.

Apple – Due to quality issues faced by our students in 2018 / 19, we would recommend considering either a windows based laptop, or an older Macbook pro with a good amount of storage.  
Current models have been experiencing overheating issues, and so we would recommend you research this thoroughly before making your decision to purchase one.  
  
**Essential buys**

A wireless mouse (essential for certain software navigation and commands not available via trackpad)

External Storage (1TB HDD or SSD) – This is essential for safely backing up your work and transferring files between machines.

**BA Architecture / M.Arch Part 2 Architecture**  
We would recommend a Mid – High spec windows based laptop for this course (specs below), due to the nature of the specialist software being taught. (Only 50% available for Apple OS)

If you wish to use an Apple product, please ensure it meets the minimum specifications, and has a minimum storage capacity of at least 256GB (so that windows can be installed via BootCamp).

**Software taught on this course:**

**Autodesk AutoCAD:** 2D technical drawing (*Windows and Mac*)

**Autodesk Revit**: Parametric modelling / Building Information Modelling (BIM) (Windows Only)

**Rhinoceros:** Organic NURBS Modelling (Windows version recommended)

**Vectorworks:** Building shell modelling. (*Windows and Mac*)

**Sketchup:** Massing / concept development (*Windows and Mac*)

**Enscape:** plugin for rendering / animation / visualization. (Windows Only)

**Vray:** plugin for advanced rendering. (Windows Only)

**Cinema 4D:** alternative renderer for mac laptops. (*Windows and Mac*)

**Adobe Photoshop:** compositing, photo editing, collage. (*Windows and Mac*)

**Adobe Illustrator:** Diagramming, graphic design. (*Windows and Mac*)

**Adobe Indesign:** Layouts, Portfolio, Pinups. (*Windows and Mac*)

**Grasshopper plugin for Rhino:** Algorithmic / computational design. (Windows Only)

**Meshmixer / Netfabb:** 3D printing. (Windows Only)

**Microsoft Office 365:** (*Windows and Mac*)

**Minimum Specifications:** (These are the minimum required to be able to run the software, based on the software’s minimum hardware requirements.)

Processor: Intel i5

RAM / Memory: 8GB

Storage: 256GB HDD

Graphics: Onboard graphics (this will not support realtime visualization applications but will support all other software)

**Recommended Specifications:** (These are what we would recommend to ensure you get the most from your laptop.

Processor: Intel i7

RAM / Memory: 16GB

Storage 512GB SSD

Graphics: Nvidia GTX 1050 (or equivalent 2GB dedicated graphics card)