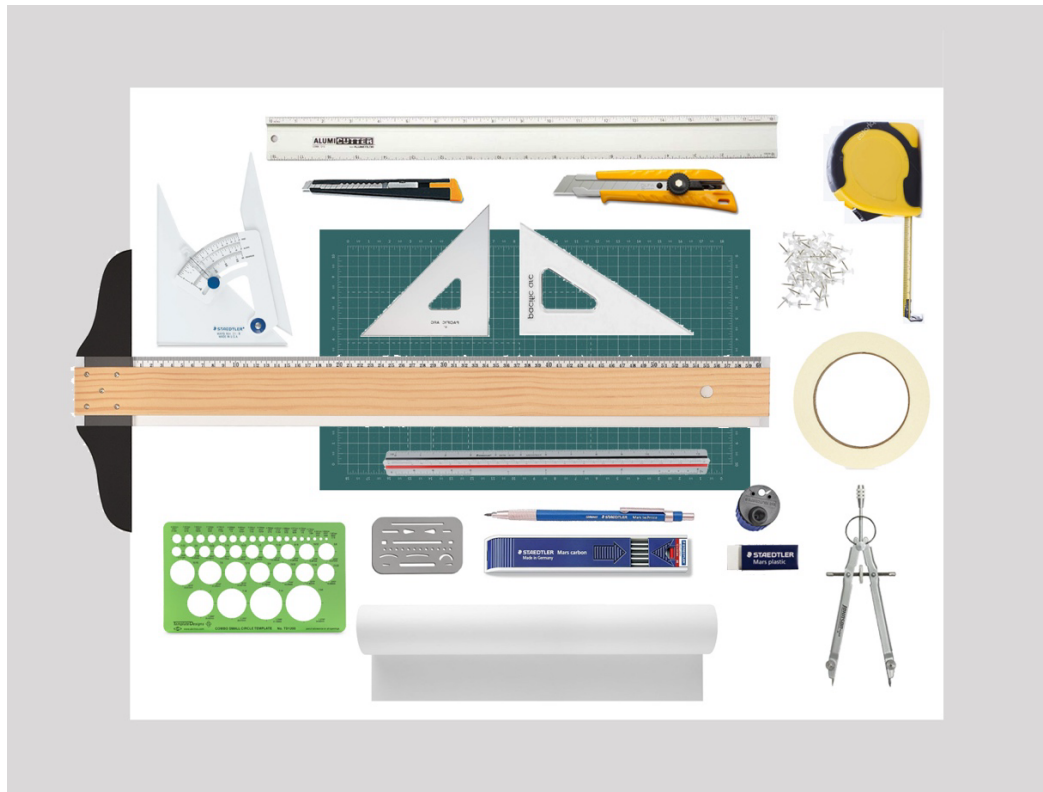


## Drawing Equipment and Materials



**studio furniture**

Each student in the school is provided with their own personal workspace. Each workspace consists of a large sturdy desk with tack-board, a strong storage locker, and an adjustable chair. You should remember to bring a padlock for your personal locker.

Listed below is an outline of equipment necessary for the production of architectural drawings and models.

**drawing board**

**parallel drafting board** There are several brands of portable drafting boards available, which come complete with a parallel rule. A 24"x36" board would be ideal, but slightly smaller boards would be acceptable.

**or**

**t-square plus  
drawing board**

A less expensive option, but a bit trickier to use. A minimum 24" T-square and a smooth-surfaced 24"x36" board would be needed.

## drafting tools

## set square

A simple 10" or 12" 45° triangle

**drafting pencil**

A proper clutch-type drafting pencil is essential to achieve controlled line work.

**leads**

A minimum of 2 HB leads and 2 2H leads for use with a clutch pencil.

**lead pointer**

A pencil sharpener specially made for clutch pencils.

eraser

A standard white vinyl eraser.

**erasing shield**

A thin piece of metal with cut-outs allowing for precise erasures.

**drafting tape**

A roll of 1/2" wide low-tack masking tape, used to hold drawings in place.

**scale**

A **metric** triangular ruler with the scales 1:20, 1:25, 1:50, 1:100.

## **model making**

|                    |                                                                                                                                                                                                                                                                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>knives</b>      | A smaller “Olfa” knife is useful for fine work, plus the larger, heavy-duty knife, and a good supply of replacement blades.                                                                                                                                                |
| <b>cutting mat</b> | You will need a self-healing cutting mat, 18x24 or larger                                                                                                                                                                                                                  |
| <b>metal ruler</b> | A metal straight-edge for trimming paper and for model building. At the very least it should have a cork backing. I cannot recommend enough the “Alumicutter” straight edge, for both accuracy and safety.** 18” is the optimum length.                                    |
| <b>glue</b>        | A bottle of Weldbond white glue.                                                                                                                                                                                                                                           |
| <b>**</b>          | Every fall in 1A studio, a few students will cut their finger while building their models, some requiring stitches. It is predictable, especially when one is tired and in a rush. Using an Alumicutter straightedge, due to its design, will prevent this from happening. |

## **papers**

|                     |                                                                                                                       |
|---------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>sketch paper</b> | This is a thin tracing paper that comes in rolls. You should purchase 50 yards of white tracing paper in a 12” width. |
| <b>sketchbook 1</b> | For Studio you will need a plain-paper sketchbook of your choice.                                                     |
| <b>sketchbook 2</b> | For Building Construction you will need a 8½” x 11” spiral bound sketchbook.                                          |

## **good to have**

|                            |                                                                |
|----------------------------|----------------------------------------------------------------|
| <b>adjustable triangle</b> | For drawing angles other than the standard 45° and 90° angles. |
| <b>compass</b>             | A basic compass for drawing large circles.                     |
| <b>circle template</b>     | For drawing small to medium sized circles.                     |

## **less essential**

|                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| <b>ellipse template</b> | Similar to the circle template but, for drawing small to medium sized ellipses. |
| <b>french curves</b>    | A set of plastic templates used for drawing complex curved lines.               |
| <b>drafting brush</b>   | A small broom to remove eraser shavings without smudging your drawing.          |
| <b>drafting lamp</b>    | A swing-arm, jointed drafting lamp is very useful when drafting.                |

## **other equipment**

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| <b>tape measure</b>   | 25 ft/7.5m retractable type tape measure in metric and imperial.                  |
| <b>push pins</b>      | For posting drawings on your tackboard, or for reviews. Clear pins are preferred. |
| <b>safety glasses</b> | A simple pair of safety goggles are required for work in the fabrication labs.    |

## **Getting and Spending**

To purchase the items listed above, we recommend the following:

You can find all the items above online, or shop in person at the following locations. In downtown Toronto the largest art supply store is DeSerres. Gwartzman's on Spadina carries a good selection of drafting equipment, as does Aboveground Art Supplies beside OCAD on McCaul. You can also try Midoco with three stores in the Toronto area. There are also numerous DeSerres outlets across Canada.

The School of Architecture has its own supply store and stocks most materials and equipment required by students on an ongoing basis. It is possible to purchase some of the equipment and tools necessary for your first term at our supply store, but supplies are limited. Until you are a registered student, however, you can only purchase items in-person.

There are a few expensive items on the list – the drafting board and adjustable triangle - both of which can potentially be purchased used. Many of our upper-year students resell their boards after first year.

Check the Waterloo Architecture Students website <https://www.facebook.com/groups/2226433053>

Or try Marketplace, Kijiji or eBay.