DESIGN STUDIO MATERIALS AND SUPPLIES

DRAWING BOARD: 48” or 60” wide x 32-36” deep, minimum. The drawing board can be made from plywood, mdf board or other smooth surface 1/2” or 3/4” thick veneer boards. This drawing board should last for the entirety of your career in school and will mostly likely last longer. Lightweight “aero core” boards that employ a plastic honeycomb core sandwiched between two wood surfaces significantly reduce the weight of a drawing board without decreasing the overall strength of the board.

BOARD COVER: a pliable vinyl material about 3/32” thick that protects the drawing board and provides a slightly cushioned drawing surface. It should cover the entire board and is attached with double-sided tape around the perimeter of the board. Often, one side is green and the other is white. If cared for properly, this cover should last for the duration of your career in school.

MAYLINE OR PARA-LINE PARALLEL BAR: 48” or 60” with brakes and ball bearings.

10” ADJUSTABLE TRIANGLE: used for making vertical and angular lines when used with a parallel rule. It has one adjustable leg and an angle scale for setting any angle required.

ARCHITECT’S SCALE: a triangular scale that includes the following scales: 3/32”, 1/8”, 3/16”, ¼”, 3/8”, ½”, ¾”, 1”, 1.5”, 3” and a 12” ruler divided into 16ths of an inch. Not aluminum.

ENGINEER’S SCALE: a triangular scale divided into 10ths of an inch and multiples thereof. This is used for smaller scale drawings such as site plans. Not aluminum.

LEADS: these are available in 15 different degrees of hardness, from 9H (extremely hard, almost like dragging a nail across paper) to 6B (extremely soft, smooth and dense black). An F lead is approximately the equivalent to a common # 2 pencil. An H lead is harder than an F while a B lead is softer. Get an assortment of B, H, 2H, 4H.

LEAD HOLDERS: it will be convenient to have two available to you so that you do not have to switch the leads out every time you undertake a different drawing task.

LEAD POINTER: this is made for sharpening drafting leads in lead holders. Either a hand-held or desktop version will do. Geddes brands preferred.

SKETCH BOOK: this should contain good quality, unlined, white sketching paper and be wire bound so that it lays flat when open. Cachet Flexi Craft or equivalent. Minimum size 6” x 8”

12’’ ROLL OF TRACING PAPER: this is used for sketches and for freehand as well as drafted schematic design and design development drawings. This is inexpensive paper and you will use a lot of it. White or cream.

18’’ ROLL OF TRACING PAPER: this is used for sketches and for freehand as well as drafted schematic design and design development drawings. This is inexpensive paper and you will use a lot of it. White or cream.
ROLL OF VELLUM PAPER: high quality, chemically treated translucent paper used for presentation drawings in pencil or ink (not used for sketching). It is much more useful and economical when purchased in rolls rather than sheets or pads. A 24” wide roll by 10 yards long will be sufficient to start.

DRAFTING TAPE OR TAPE DOTS: used for attaching paper to the drafting board. It acts like masking tape but it easier to remove from the paper without tearing it.

DOUBLE-SIDED TAPE

MAGIC RUB ERASER: White vinyl, for the smudge-free removal of pencil lines.

ERASING SHIELD: a thin, flexible, stainless steel shield with a variety of tooled openings that is used to shield areas not to be erased.

DESK BRUSH: a standard long-bristle drafting brush with a handle for cleaning drawings and board of eraser debris. It should be at least 10” long.

X-ACTO KNIFE: a blade holder with a single-edged blade that is used for cutting paper and cardboard. It comes with a small supply of blades which can also be purchased separately as needed. A good first choice would be a knife that holds X-ACTO # 11 blades.

18” STAINLESS STEEL RULER: used as a straightedge for guiding cuts when making models. This should have non-slip cork on the backside. It is also available in aluminum, but tends to be cheaper and less durable.

20/60D PLASTIC TRIANGLE: minimum 12”

18” X 24” SELF-HEALING CUTTING MAT: an acceptable surface for cutting. It is most often used for making of models.

AN ASSORTMENT OF MARKERS/ROLLING WRITERS

COLORED PENCILS: 12 colors minimum

SCISSORS

PUSHPINS: extra long with aluminum heads (sometimes called “silver bullets”)

The School will provide a chair, a desk, and a lockable storage container (you will need to purchase a lock) for your drawing tools and materials for your use in studio. The desk surface cannot be drilled, cut, or altered in any way. Therefore you will need to permanently mount your parallel bar to the drawing board and then place that on top of your studio desk.

(We don’t expect you to have these boards built for the first day but we do expect you to have all the parts and pieces to assemble the boards on the first day of class in studio.)
IMPORTANT NOTE REGARDING RECOMMENDED HARDWARE:

These recommendations are preliminary, final recommendations may change during the summer to reflect release of new software versions or updated computer hardware by manufacturers.

IMPORTANT

Please note that software requirements change progressively depending on which semester you are attending. Since the software requirements are not as intense the first year, if your laptop was adequate to perform your work for your senior year of high school, it will be appropriate for use the first year at Tulane. Assuming a 3 year working life for a laptop, delaying the hardware purchase until 2nd year would be a good strategy, only if you feel your current laptop is in good standing.

If you are a student using a financial aid package, please consult with your financial aid advisor to see if you can delay funds until the second year or if you must use funds the first year towards the purchase of a new computer.

Please refer to the “Computer Requirements Table” attached to this document.

Also attached are some Education prices for current Apple models available from the Tulane Technology store.

PC’s quality, features and price vary by manufacturer. Please use the requirements table as a guide if you are shopping for a windows based laptop.

Tulane Tech Store Website:

http://tulane.edu/universityservices/tech-products/index.cfm

Any questions should be directed to Victor Garcia vgarcia @ tulanedot edu
# Laptop Computer Specifications for new purchases - PC

<table>
<thead>
<tr>
<th>Category</th>
<th>Descriptions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel® Core™ i7 QUAD CORE Processor</td>
<td>4th Generation Intel® Core™ i7 Quad Core Processor (2.4 Ghz or Higher Recommended)</td>
</tr>
<tr>
<td>Display</td>
<td>14-16&quot;, HD RESOLUTION</td>
<td>14.1, 15.0, 15.4 widescreen. 16, &amp; 17 are all available. 15&quot; or higher is recommended. Color support should be 16 million. HD Resolution (1600x900 or 1920x1080) Recommended for maximum workspace</td>
</tr>
<tr>
<td>Memory (RAM)</td>
<td>8GB</td>
<td>8GB Better, 16GB+ Best</td>
</tr>
<tr>
<td>Hard Drive</td>
<td>500GB Hard Drive</td>
<td>Consider upgrading to a larger Hard Drive for Storage throughout your next 4 years.</td>
</tr>
<tr>
<td>Operating System</td>
<td>Windows 7 or Windows 8</td>
<td>Avoid the &quot;HOME&quot; flavors as it has limits on its networking abilities. “Professional” version recommended.</td>
</tr>
<tr>
<td>Hardware Support Services</td>
<td>3 yr Parts + On Site Labor (next business day) + Complete care</td>
<td>This service plan is the minimum requirement since you will be responsible for maintaining and repairing your laptop. TSA does not offer hardware support, however, University Computing Services is an authorized service provider and will facilitate all warranty issues</td>
</tr>
<tr>
<td>Graphics Card</td>
<td>1GB + Graphics Card</td>
<td>1GB Better, 2GB Best</td>
</tr>
<tr>
<td>Security Cable</td>
<td>Kensington Security Cable</td>
<td>The TSA computer usage policy requires that your laptop be secured at all times when not in your possession, either with a cable or in a secured desk compartment.</td>
</tr>
<tr>
<td>Networking</td>
<td>Wireless G or N Network Card</td>
<td>The entire campus is equipped with wireless technology. TSA has Wireless N Wifi Throughout the building. Note Wireless G Better, Wireless N Best.</td>
</tr>
<tr>
<td><strong>OPTIONAL ITEMS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External Storage +Backup</td>
<td>1TB GB Hard drive</td>
<td>USB external hardrive of equal or greater size of your laptop drive. USB Flash Drive. 8 GB - 32G available (8G recommended) for easy file transport.</td>
</tr>
<tr>
<td>Additional Monitor</td>
<td>21&quot; or higher</td>
<td>There are huge benefits of using an external monitor in addition to your laptop screen. By expanding your work area you can have more tools open at the same time</td>
</tr>
<tr>
<td>Carrying Case</td>
<td></td>
<td>Most companies will offer a carrying case with the system, but if not this is a good item to protect your investment.</td>
</tr>
</tbody>
</table>
## Laptop Computer Specifications - MAC

<table>
<thead>
<tr>
<th>Category</th>
<th>Descriptions</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Processor</strong></td>
<td>Intel® Core™ i7 Dual Core Processor Macbook Pro</td>
<td>Intel® Core™ i7 Dual Core Processor (2.6 Ghz or Higher Recommended), Quad Core available on 15” Models</td>
</tr>
<tr>
<td><strong>Display</strong></td>
<td>15.4” widescreen display 1920x1080 HD resolution</td>
<td>Retina display recommended.</td>
</tr>
<tr>
<td><strong>Memory (RAM)</strong></td>
<td>8GB</td>
<td>8GB Better, 16GB Best</td>
</tr>
<tr>
<td><strong>Hard Drive</strong></td>
<td>500GB</td>
<td>500GB to 750GB are standard hard drives on Apple’s MacBook Pro series Solid State Drives offer Much better performance</td>
</tr>
<tr>
<td><strong>Operating System</strong></td>
<td>Mac OS X 10.7 (Lion) or higher Win7/8 Professional (additional Purchase)</td>
<td>A copy of Windows 7 or 8 Professional will allow Mac users to use all windows compatible software on their Mac. This option is strongly recommended to Mac users since a few drafting and modeling applications for architects are “PC only.” NOTE Windows License not INCLUDED. Students can download VMware FUSION for free to allow windows to run on MAC</td>
</tr>
<tr>
<td><strong>Optical Drive</strong></td>
<td>8x SuperDrive</td>
<td>some newer Mac Book Pro’s don’t have a DVD drive. It can be purchased separately. Most software can be downloaded but some still require a DVD drive.</td>
</tr>
<tr>
<td><strong>Hardware Support</strong></td>
<td>2-3 year Apple Protection Plan</td>
<td>The AppleCare Protection Plan is available through Apple. TSA does not offer hardware support, However Tulane University Computer Services is an authorized service provider and will facilitate all warranty issues.</td>
</tr>
<tr>
<td><strong>Graphics Card</strong></td>
<td>512MB + Graphics Card</td>
<td>512MB Better, 1GB Best</td>
</tr>
<tr>
<td><strong>Security Cable</strong></td>
<td>Kensington Security Cable</td>
<td>The TSA computer usage policy requires that your laptop be secured at all times when not in your possession, either with a cable or in a secured desk compartment.</td>
</tr>
<tr>
<td><strong>Network</strong></td>
<td>Ethernet, Airport 802.11n</td>
<td>These networking cards and ports are standard on all Apple computers including Mac Book Pro models. Wireless N Included.</td>
</tr>
<tr>
<td><strong>Additional Monitor</strong></td>
<td>21” or higher</td>
<td>There are huge benefits of using an external monitor in addition to your laptop screen. By expanding your work area you can have more tools open at the same time</td>
</tr>
<tr>
<td><strong>External Storage</strong></td>
<td>500GB+ Ext. Hard Drive, USB Flash Drive</td>
<td>An external drive of equal or greater size as your laptop drive for use as Time Machine Backup. USB Flash Drive 8GB+ for easy transport of files between Machines</td>
</tr>
<tr>
<td><strong>Carrying Case</strong></td>
<td></td>
<td>Recommended to protect your investment.</td>
</tr>
</tbody>
</table>
What kind of computer does the School of Architecture require?

- Below are the School of Architecture’s minimum and recommended computer configurations. Stop by Technology Connection in the Lavin-Bernick Center to discuss your order.
- The most common computers on campus are Apple and Dell models. These are the brands Technology Services is certified to repair. If you have a preference for another computer manufacturer, please note that support will be much more limited on Tulane’s campus.

**Recommended PC**

- Dell Latitude E6540
  - 15.6 inch (1920x1080) Wide View Anti-Glare
  - 4th Generation Intel Core i7-4800MQ Processor
  - 64-bit Windows 7 Professional
  - 16GB DDR3-1600MHz SDRAM, 2DIMMS
  - 8X DVD+/-RW
  - AMD Radeon HD 8790M
  - 500GB Mobility Solid State Hybrid Drive
  - Noise Cancelling Digital Array Microphone
  - 9-cell (97WH) Primary Lithium Ion Battery
  - 3 Year ProSupport with accidental Damage
  - **Subtotal $1,931.71**

**Recommended Mac**

- 15" MacBook Pro with Retina Display
  - 15.4-inch LED-backlit display (2880x1800)
  - 2.5GHz Quad-core Intel Core i7
  - 512GB PCIe-based Flash Storage
  - 16GB of 1600MHz DDR3L memory
  - NVIDIA GeForce GT 750M w/2G GDDR5
  - 720p FaceTime HD camera
  - (optional) Apple USB SuperDrive +$79
  - Up to 8 hours wireless web battery life
  - (optional) 3 year extended Applecare Protection Plan +$239
  - **Subtotal $2,299.00**
  - MGXC2LL/A

*Please note that subtotal does not include sales tax*
### Minimum PC

- Dell Latitude E5430
- 14 inch HD+ Wide Anti-Glare LED
- 2.9GHz Intel Core i7-3520 Processor
- 64-bit Windows 7 Professional
- 8GB DDR3-1600MHz SDRAM, 2DIMMS
- 8X DVD+/-RW
- 500GB Hard Drive
- Noise Cancelling Digital Array Microphone
- 6-cell (60WH) Primary Lithium Ion Battery
- 3 Year ProSupport with accidental damage

**Subtotal $1,291.30**

### Minimum Mac

- 13” MacBook Pro with Retina Display
- 13.3-inch LED-backlit display (2560x1600)
- 2.8GHz Dual-core Intel Core i7
- 8GB 1600MHz DDR3L SDRAM
- 512GB SSD drive
- (optional) Apple USB SuperDrive +$79
- Up to 9 hours wireless web
- 720p FaceTime HD camera
- (optional) 3 year extended Applecare Protection Plan +$183

**Subtotal $1,699**

**MGX92LL/A**

*Please note that subtotal does not include sales tax*

### PC Software

- Adobe Creative Cloud Subscription $359.88 (required starting third semester)
- Microsoft Office 365 $139.99 (required starting first semester)

**Subtotal $499.87**

### Mac Software

- Adobe Creative Cloud Subscription $359.88 (required starting third semester)
- Microsoft Office 2011 for Mac $135.99 (required starting first semester)
- Windows 7 Professional 64-bit $168 (required starting third semester)
- VM Fusion FREE

**Subtotal $663.87**

- A second monitor is highly recommended, more than doubling your work area for quicker access to your tools.
- Security cables and Ethernet cables are recommended
- Wireless printers are NOT allowed on campus.
- Computers purchased through Technology Connection are exempt from diagnostic fees.

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**Technology Connection**

[www.techconnect.tulane.edu](http://www.techconnect.tulane.edu)

504 862 8059

Lavin Bernick Center suite 104
tcorders@tulane.edu