

**Faculty of Architecture
University of Manitoba
Laptop & Software Specifications
2011-2012**

(Specifications current as of June 2011)

CADLab is the main provider of computer support for the Faculty of Architecture. They maintain the computer lab, the printing & scanning facilities, as well as provide technical help to staff and students. CADLab has worked closely with all the departments to establish these specifications.

All students are responsible for installing and configuring the software on their personal laptops. CADLab provides only very basic assistance with troubleshooting student owned equipment.

If you have questions or concerns please contact Chris Leigh, CADLab Coordinator, at 204-474-9945 or by e-mail leighc@cc.umanitoba.ca

Laptop Hardware Requirements:

Mac:

Apple MacBook Pro 15 Inch
2.2Ghz Quad Core i7
8GB RAM
AMD Radeon HD 6750M w/1GB
750GB HD
1680x1050 Screen
Mac OS X 10.6 or better

Cost: \$2337.00

PC: (Example Only)

Dell XPS 15z
2.7Ghz Dual Core i7
8GB RAM
NVIDIA GeForce GT 525M w/2GB
750GB HD
1920x1080 Screen
Windows 7 64-Bit

Cost: \$1399.99

Software Requirements:

Environmental Design:

Required:

- Adobe CS Standard 5.5
- MS Office 2010 (2011 Mac)
- AutoCAD 2012 for Windows*
- L+U Option Only:
 - Vectorworks 2011
- IE Option:
 - Revit Arch 2012*
- Arch Option:
 - 3dsmax 2012*
 - Revit Arch 2012*

Landscape Architecture:

Required:

- Adobe CS Standard 5.5
- MS Office 2010 (2011 Mac)
- Vectorworks 2011

Recommended:

- Adobe Premiere

Required (Senior Years Only):

- ArcGIS ArcInfo 10*
- Cinema 4D Studio R12
- Rhinoceros 3D v4*
- Vue 9.5 xStream

Interior Design:

Required:

- Adobe CS Standard 5.5
- MS Office 2010 (2011 Mac)
- AutoCAD 2012 for Windows*
- Revit Architecture 2012*
- Google SketchUp

Recommended:

- Rhinoceros 3D v4*

Architecture:

Required:

- Adobe CS Standard 5.5
- MS Office 2010 (2011 Mac)
- 3dsmax 2012*
- AutoCAD 2012 For Windows*
- Revit Architecture 2012*

Recommended:

- Rhinoceros 3D v4*

City Planning:

Required:

- Adobe CS Premium 5.5
- MS Office 2010 (2011 Mac)
- ArcGIS ArcInfo 10*
- Google SketchUp
- Vectorworks 2011

Recommended:

- atlas-ti*
- SPSS Statistics 19 Base

Note: Programs marked with a * require Microsoft Windows. Please read the section on installing Windows on a Mac. For AutoCAD, please make sure you have the Windows version, and not the Mac version. The Mac version of AutoCAD is not as feature complete as the Windows version.

Regarding Windows software on Mac computers:

It is possible to run Windows software on Mac laptops. There are two ways to do it; you can use VMWare or Boot Camp.

VMWare is a program that allows you to run a virtual copy of Windows alongside your Mac programs. Boot Camp allows you to partition your Mac in two, one Mac side and one Windows side.

Microsoft Windows and VMWare are available from CADLab at no charge. For performance reasons, CADLab recommends Boot Camp over VMWare.

The pros and cons of each are as follows:

VMWare:

Pros:

- Allows you to use Windows and Mac applications at the same time
- No need to reboot to switch between Mac and Windows
- Easy to share files between Mac and Windows

Cons:

- Windows programs operate about 15-40% slower in VMWare than in Boot Camp
- Programs that depend heavily on 3d graphics may occasionally be slow to respond or display graphical glitches

Boot Camp:

Pros:

- Runs programs at 100% full speed
- Is effectively the same as using a real PC, which eliminates any compatibility issues there might be with VMWare

Cons:

- Mac programs are not available while using Windows
- Is effectively like having two separate computers, one Mac and one PC

In either case, once you've installed Windows, you should install Anti-Virus software. For example, Microsoft Security Essentials.

Where to obtain the software:

Product	Obtained from	Price
3ds Max	students.autodesk.com	Free download
Adobe CS 5.5 Premium	U of M Bookstore	\$399
Adobe CS 5.5 Standard	U of M Bookstore	\$229
Adobe Premiere	U of M Bookstore	\$229*
ArcGIS ArcInfo	Your GIS instructor**	Free DVD
atlas.ti	http://www.atlasti.com/students.html	\$99
AutoCAD	students.autodesk.com	Free download
Cinema 4D Studio	Maxon Computer, 1-877-264-6283 x5132	\$495
Google Sketchup	sketchup.google.com	Free download
Microsoft Office	U of M Bookstore	\$100
Revit Architecture	students.autodesk.com	Free download
Rhinoceros	http://www.rhino3d.com/eduproducts.htm	\$195
SPSS Statistics 19 Base	U of M Bookstore	\$109.95/Year
Vectorworks	www.nemetschek.net/student/	Free download
Vue xStream	http://www.e-onsoftware.com	\$149 / Year

*Adobe Premiere is not normally stocked by the Bookstore. It is a special order that takes 2-3 weeks to arrive.

**ArcGIS is ordered in bulk on a class by class basis and takes 3-4 weeks to arrive. We cannot order individual copies; they must be ordered as part of a class.