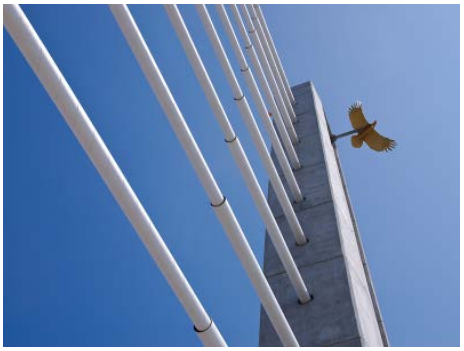
Civil Engineering

Notice of future Bring Your Own Device (BYOD) initiative @ BCIT



The Bring Your Own Device (BYOD) initiative at BCIT is in the formative stages and, in the future, will allow you as a registered BCIT student to access campus computing resources at any time through your own device. The Department of Civil Engineering will be participating in a limited pilot project in Fall 2016 where this functionality may be used. Students that have a computing device meeting the minimum requirements below may be asked to voluntarily help us with this pilot and will be able to securely connect through a web browser to a BCIT managed "virtual desktop" where computing applications for specific courses will be available. This virtual desktop can be accessed both on campus and remotely, and may be used within particular courses for instruction purposes. No additional software will need to be installed on your computing device.

BYOD Computing Device Requirements

As an incoming Level 1 Civil Engineering student, you are NOT required to supply your own computing device – courses are set up where BCIT computer labs will be provided where needed. If you do have your own computing device that meets or exceeds the minimum requirements listed below then you may be provided with the opportunity to help us pilot a virtual desktop interface where you will run BCIT-provided software applications for specific courses.

Minimum requirements[1]:

- 14" screen[2]
- Minimum resolution of 1280 x 1024
- Wireless standard 802.11n or Wireless 802.11ac
- Integrated keyboard[3]
- Current Chrome/Safari/Firefox installed web browser
- Power cord for recharging during classroom use
- Recommended: 2-hour or greater battery life

[1] BCIT's Engineering programs use the Windows platform as a teaching environment. In addition to Windows laptops, Mac laptops are acceptable as BYOD devices but only for remote access via web browser to software applications.

[2] BCIT Civil Engineering courses make extensive use of AutoCAD and other Autodesk products. While AutoCAD will run on any number of screen sizes, it is optimal if students have as large a screen as possible.

[3] Tablet computers are consumption devices. As a student you will be creating content and not just consuming it; tablet computers without keyboards are not well suited for this.

The above minimum requirements will allow you to remotely access and run BCIT-provided software applications without physically installing them on your own device.

Software applications used in Level 1 (1st year) of BCIT Civil Engineering

- Adobe Acrobat Professional
- AutoCAD 2017
- AutoCAD Civil 3D 2017
- Microsoft Office 2016
- Revit 2017

Software applications used in Level 2 (2nd term of 1st year) and later of BCIT Civil Engineering

- Autodesk Vehicle Tracking 2017
- CES EduPack 2016
- ETABS 2015
- GeoStudio 2012
- HeavyBid
- Maple 18
- MASTAN2
- Mathcad
- Matlab
- Microsoft Project 2016
- PCSWMM
- Revit Structural 2017
- SAP2000 17
- Softek Structural Office
- Synchro 9

Standalone software installation

For use outside of the classroom, you may optionally elect to purchase a more powerful computing device that exceeds the minimum requirements listed and would be capable of installing and running some of the above software applications natively (standalone). Windows based machines are optimal for this purpose as they match the delivery platform used by BCIT Civil Engineering. If you want to use a Mac laptop, you may find it necessary to install Windows emulation software to run certain applications.

If you plan on installing standalone software applications, you should research for yourself the hardware requirements necessary to accommodate some or all of the software indicated above. Some (not all) of these software applications have versions that are available free of charge to registered students.

Useful Links

If you would like to have the ability to natively run (i.e. standalone) software used in BCIT Civil Engineering on your own computer, please review and consider the following links before making any purchasing decisions:

- AutoCAD hardware http://tinyurl.com/jd46ymz
- Revit hardware http://tinyurl.com/gsupr6f