

## SPECIFICATIONS STANDARD\* CONFIGURATION LAPTOP

Suitable for Summa International Engineering. [The basic configuration](#) may also be purchased for this programme.

### Minimum technical specifications:

- Processor: Intel Core i5 of equivalent AMD processor.
- Memory: Minimum of 4GB (recommended is 8GB when using CAD programmes) .
- Hard disk: SSD minimum of 250GB or a combination of HDD and SDD with a minimum of 500GB.
- Optical Drive: DVD-ROM (can also be an external USB device).
- Graphics card: Onboard (integrated) graphics.
- If you want to work intensively with CAD programmes on your own laptop, a separate specification is recommended.\*
- However, this is not necessary. The OLCs at the Eeuwseel and the programming rooms at the BI Campus have powerful computers.
- Wireless network: 802.11AC, (minimum 300Mbit) with WPA/WPA2 (Enterprise) support.
- Format screen: Minimum 15 inch .
- Resolution screen: 1366 x 768 (1920x1080 recommended when using CAD programmes).
- Connectivity: USB2.0 | USB3.0 | VGA and or HDMI
- Duration battery minimum 4 hours

### Operating system:

- Windows 10 64 bit, or Windows 8.x.

### Software:

- An adequate, up-to-date virus scanner. (Windows 10 has a built in virus scanner).
- For Microsoft Office, Microsoft offers a special version for Summa College students. This software is available for Windows and MacOS. However, Summa College does not support Apple or MacOS.

### Education Software

- A free student version of Solidworks is available from the subject teachers.
- The Autocad, Inventor and Revit packages are available to students free of charge.
- <http://www.autodesk.com/education/free-software/all> offers 3-year-

student licenses free of charge.

**Recommended accessories:**

- Sturdy laptop bag
- Mouse (wired or wireless)
- USB stick or external hard drive for backup
- 3 Year warranty

\*If you also want to work with CAD/CAM programmes such as Solid Works, Inventor or Edgecam on your own laptop (at home or outside the lessons) you need a laptop with an NVidia graphics card from the Quadro M or Quadro P series with at least 4GB memory. It is advisable to choose Windows 10, 64 bits as the operating system and an Intel i5, i7 or Xeon-E3 processor with a speed of at least 2.8Ghz or more.