

Specifications standard* laptop configuration school year 2019-2020:

Suitable for Summa International Engineering.

Minimum technical specifications:

- Processor: Intel Core i3 (generation 8), Core i5 (generation 7 or higher) or equivalent AMD.
- Memory: Minimum 4GB (recommended is 8GB when using CAD programmes).
- Hard drive: SSD minimum of 250GB or a combination of HDD and SSD 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. See below.*
However, this is not necessary. The OLCs at the Eeuwsel and the programming rooms at the Brainport Industries Campus have powerful computers.
- Wireless network: 802.11AC, (minimum 300Mbit) with WPA/WPA2 (Enterprise) support.
- Resolution screen: 1366 x 768 (1920x1080 recommended when using CAD programmes).
- Connectivity: USB2.0 | USB3.0 | HDMI
- Duration battery: Minimum 4 hours.

Operating system:

- Microsoft Windows 10, 64 bit

Summa College does not provide support on operating systems other than Microsoft Windows. Chromebook is not supported.

Software:

- An up-to-date virus scanner (e.g. Microsoft Defender).
- For Microsoft Office, Microsoft offers a version for Summa College students, free of charge. You can find more information on this at www.summacollege.nl/student (in Dutch, under 'ICT-handleidingen').

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.
- De pakketten Autocad, Inventor en Revit zijn voor studenten gratis te verkrijgen. <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 SolidWorks, 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.