## Fontys Engineering

## Laptop advice

## Laptop specifications

Regardless of which Engineering programme you take, you will need a laptop.
If you already have one, we advise you to use it until it turns out that it is not suitable for certain software you need to use during your studies.
If you want to take this into account when buying a new laptop, please note the following.

## Hardware (all programmes)

- Processor: Intel Core i7 (preferably 4 cores or more) or Intel Core i5 (preferably generation 10 or later, with 4 cores or more) or AMD Ryzen 5 or 7
- Display: high resolution display (at least 1920 x 1080 pixels)
- Video graphics, *see below exceptions for certain programmes*
- Storage: at least SSD 500 GB (preferably 1Tb or more)
- System memory (RAM): sufficient memory to run the operating system and required applications (at least 16 GB, preferably 32GB or more)
- Wi-Fi: wireless internet 802.11g (preferably 802.11n dual-band 2.4 GHz/5 GHz) en WPA-2 compatible
- USB port, *see below exceptions for certain courses*
- Other: webcam en headset

## Operating system and software (all programmes)

- Microsoft Windows 10 or 11 (64 Bit)
- Microsoft Office 2016 or later. Educational licences available through **surfspot.nl**

Software and licenses supplied by Fontys are exclusively available for the Microsoft Windows platform. **Apple and Linux computers are not supported.**

# Extra specifications per programme

## Mechatronics

- RJ45 connector for Siemens PLC box; option is an USB to RJ45 adapter to be connected separately;
- Check the following link for software Solidworks
  **https://www.solidworks.com/support/hardware-certification**

## Applied Mathematics

- For all written exams, Applied Mathematics requires students to start their laptop with a bootable USB flash drive containing a restricted version of Windows. This operating system will only work on Windows-certified hardware. It is impossible to take an exam with Apple or Linux machines.
- Usb-port type A: Needed for digital exams

## Mechanical Engineering

- For software Siemens NX is a standard graphical cards not enough. Siemens has an list of certified cards. See the following link:
  **https://support.sw.siemens.com/kbassets/PL8017193/NX-Graphics-Certification-Table.xlsx** . Go to the sheet "Certification Matrix". Officially certified graphics cards all belong to the professional segment and are therefore relatively expensive. It is possible to use a cheaper gaming graphics card. Decent results have been reported using NVidia GTX 3060 or MX series cards and newer. If you are contemplating purchasing another graphics card, please contact the programme Mechanical Engineering for advice.