

## Specifications standard\* laptop configuration school year 2019-2020:

Suitable for Metal Factory.

### Minimum technical specifications:

- Processor: Intel Core i3 (generation 8) Core i5 (generation 7 or higher) or equivalent AMD.
- Memory: Minimum 4GB.
- Hard drive: SSD minimum of 120GB.
- Optical drive: DVD-ROM (can also be an external USB device).
- Graphics card: Onboard (integrated) graphics.
- Wireless network: 802.11ac, 802.11a, 802.11g, 802.11n.
- Resolution screen: 1366 x 768.
- Connectivity: 3 x USB (2.0 and/or 3.0) | HDMI.
- Duration battery: Minimum 4 hours.

### Operating system:

- Microsoft Windows 10

You can also use an Apple MacBook. Please note that 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](http://www.summacollege.nl/student) (in Dutch, under 'ICT-handleidingen').

### Recommended accessories:

- Sturdy laptop bag.
- Mouse (wireless).
- USB stick or external hard drive for backup.
- Laptop insurance / warranty.

### In consultation with your school:

- It is important that you make backups. There are various (free) online options (e.g. Onedrive) for making a backup. Alternatively, a USB stick or external hard drive can be used. You don't need to already have this at the start of the programme.