

College of Engineering and Applied Science

Minimum Laptop Specifications 2020 – 2021

(Last Updated 2020-Jul)

The following laptop configuration was developed by the Office of College Computing (OCC) for CEAS. These are **recommended minimum** configurations.

Certain academic programs require a different configuration, so please check with your specific Department for additional requirements.

- The Department of Civil and Architectural Engineering and Construction Management's (CAECM) laptop specification can be found at: <https://ceas.uc.edu/academics/departments/civil-architectural-engineering-construction-management/for-students/student-laptops.html>, which contains a link to purchase their preferred Dell models.
- The Department of Mechanical and Materials Engineering (MME) and the Department of Aerospace Engineering and Engineering Mechanics (AEEM) require the use of Siemens software. The Dell Precision 3551 specification listed on the 2nd page meets the hardware requirements of the Siemens software, and is available on the CEAS Dell Portal site, www.Dell.com/UC_CEAS.

Minimum Recommended Laptop Specifications

- Intel® Core™ i7 Processor
- 16GB DDR4
- Dedicated video card with minimum 4GB of video memory
- HDMI port for external monitor/projector
- HDMI cable
- 512GB Solid State Drive or 512GB M.2 NVMe Drive
- Audio, Webcam and Mic (required)
- 10/100/1000 Network interface
- Wireless 802.11 ac dual band
- USB 3.1 ports, Gen 1 and Gen 2 (Type-C)
- OS: Windows 10 Professional or higher, 64-bit

Additional Considerations

- Due to the nature of how laptops are used, an extended warranty may be an option to consider.
- CEAS OCC does not support Mac OS X. Apple is moving to its own ARM-based processors and will not support Windows in Boot Camp mode. Since some of our engineering applications do not run on Mac OS, Macs should not be purchased for any of the engineering programs.
- A Mini DisplayPort to HDMI adapter will be needed, if applicable.
- Students may also want to consider a 1TB or larger USB external hard drive for backing up their computer system.

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CEAS Recommended Model

Dell Precision 15 3551

Intel Core i7-10850H (6 Core, 12MB Cache, 2.7GHz, 5.1GHz Turbo, 35W vPro)
16GB DDR4-2933MHz, Non-ECC
512GB M.2 NVMe Solid State Drive
Nvidia Quadro P620 w/4GB GDDR5
15.6" FHD 1920x1080, Anti-Glare Non-Touch, 100% sRGB
Windows 10 Professional
microSD Card Reader
HDMI, Ethernet
1 USB-C, 3 USB 3.1
Security Slot
ProSupport Plus 3 Years (Includes Accidental)

\$1525.00