

# College of Engineering and Applied Science

## Minimum Laptop Specifications 2019 – 2020

(Last Updated 2018/11/21)

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: [CAECM-Student-Laptop-Specs](#), which contains a link to purchase their preferred Dell model.
- 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 3520 specification listed on the 2<sup>nd</sup> page meets the hardware requirements of the Siemens software, and is available on the CEAS Dell Portal site, [www.Dell.com/UC\\_CEAS](http://www.Dell.com/UC_CEAS).

The CEAS Dell Portal site will also carry a lower end Dell laptop that meets the specifications listed below, but does not meet the specific hardware requirements for the above two programs. Please see the 2<sup>nd</sup> page for more details.

### **Minimum Recommended Laptop Specifications**

- Intel® Core™ i7 Processor
- 16GB DDR4 SDRAM
- Dedicated video card with minimum 2GB of video memory
- HDMI port for external monitor/projector
- HDMI cable
- 512GB Solid State Drive or 500GB (5400 rpm) SATA hard drive
- Audio
- 10/100/1000 Network interface
- Wireless 802.11 ac dual band
- USB 3.0 ports
- 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 officially support Mac OS X. If the student chooses to purchase an Apple laptop, it should meet the similar specifications listed above, in addition to running a compatible virtual platform, such as VMWare Fusion, with Windows 10 Professional 64-bit installed for software that may require a Windows platform.
- 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 Models

## **Dell Inspiron 15 7000**

8th Generation Intel(R) Core(TM) i7-8565U Processor (8MB Cache, up to 4.6 GHz)  
16GB, DDR4, 2666MHz  
512GB SSD Hard Drive  
NVIDIA GeForce MX150 2GB GDDR5  
15.6-inch FHD (1920 x 1080) LED-Backlit Non-Touch Display  
Windows 10 Professional  
HDMI, Ethernet  
USB 3.0, USB 2.0  
Security Slot  
ProSupport Plus 3 Years (Includes Accidental)

**\$1149.00**

## **Dell Precision 15 3530**

Intel Core i7-8750H (6 Core, 9MB Cache, 2.20GHz, 4.1GHz Turbo, 35W)  
16GB DDR4-2666MHz SDRAM, 2 DIMMS, Non-ECC  
512GB SSD Hard Drive  
Nvidia Quadro P600 w/4GB GDDR5  
15.6" FHD 1920x1080, Anti-Glare Non-Touch, 72% color gamut, WVA, Mic only, WWAN Capable  
Windows 10 Professional  
SD Card Reader  
HDMI, VGA, Ethernet  
1 USB-C, 3 USB 3.1  
Security Slot  
ProSupport Plus 3 Years (Includes Accidental)

**\$1525.00**