

College of Engineering and Applied Science

Minimum Laptop Specifications 2018 – 2019

(Last Updated 2018/01/25)

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: <http://ceas.uc.edu/caecm/Students/LaptopRequirements.html>, 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 2nd page meets the hardware requirements of the Siemens software, and is available on the CEAS Dell Portal site, 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 2nd 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 Apple Bootcamp with Windows 10 Professional 64-bit 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 1500

7th Generation Intel(R) Core(TM) i7-7500U Processor (4M Cache, up to 3.50 GHz)

16GB, DDR4, 2400MHz

1TB 5400 rpm SATA Hard Drive

AMD Radeon(TM) R7 M445 Graphics 4GB GDDR5

15.6-inch FHD (1920 x 1080) Truelife LED-Backlit On-cell Touch Display

Windows 10 Professional

DVD-RW Drive

SD Card Reader

HDMI, Ethernet

2 USB 3.0, 2 USB 2.0

Security Slot

ProSupport Plus 3 Years (Includes Accidental)

\$986.57

Dell Precision 15 3520

Intel Core i7-7700HQ (Quad Core 2.80GHz, 3.80GHz Turbo,6MB 35W)

16GB (2x8GB) 2400MHz DDR4 Non-ECC SDRAM

512GB M.2 SATA Solid State drive Class 20

Nvidia Quadro M620 w/2GB GDDR5

15.6" HD TN Non Touch (1920x1080) Anti-Glare LED-backlit

Windows 10 Professional

SD Card Reader

HDMI, VGA, Ethernet

1 USB-C, 3 USB 3.0

Security Slot

ProSupport Plus 3 Years (Includes Accidental)

\$1550.00