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](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 3541 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](http://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 MVMe Drive
- Audio
- 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 officially support Mac OS X. If the student choses 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.
Dell Precision 15 3541

- Intel Core i7-9850H (6 Core, 12MB Cache, 2.6GHz, 4.6GHz Turbo, 35W vPro)
- 16GB DDR4-2666MHz, Non-ECC
- 512GB M.2 MVMe 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)

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