College of Engineering and Applied Science

Minimum Laptop Specifications 2016 - 2017

The following laptop configuration was developed by the Office of College Computing (OCC) for CEAS. These are **recommended** **minimum** configurations. Certain academic programs may require a different configuration, so please check with your specific program for any additional requirements. Students may also want to consider a 1TB or larger USB external hard drive for backing up their computer system.

Minimum Recommended Laptop Specifications

- Intel® Core™ i5 Processor or higher
- 8GB DDR3 SDRAM or higher
- Dedicated video card with minimum 1GB of video memory (recommended, see note below)
- HDMI port for external monitor/projector
- HDMI cable
- 500GB (5400 rpm) hard drive or 256GB Solid State Drive
- DVD±RW (internal or external)
- Audio
- 10/100/1000 Network interface
- Wireless 802.11g/n (minimum)
- Wireless 802.11 ac dual band (recommended, see note below)
- USB 2.0 ports/3.0 ports
- OS: Windows 7, 10, or 8.1 Home Premium 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 Apple Bootcamp with Windows 7 Professional 64-bit for software that may require a Windows platform.
  See http://www.uc.edu/content/dam/uc/ucit/docs/helpdesk/InstallingWindows7UltimateOnAMac.pdf
- A Mini DisplayPort to HDMI adapter will be needed, if applicable.

Note: Integrated video may be used, but can result in slower performance when using modeling software. If using integrated video, one of the following should be selected (listed in order of performance, highest first).

1. Intel HD 530
2. Intel HD 520
3. Intel HD 6000
4. Intel HD 5500

Note: UCIT is implementing the Aruba 220 wireless access points (802.11ac) on campus. These APs deliver gigabit Wi-Fi performance to 802.11ac mobile devices, are three-times faster than 802.11n devices, and provide performance similar to a wired connection.