

KSU ARE/CNS Laptop Requirements (Updated 08-2021)

Minimum Requirements:

- Windows 10 Pro (64-bit). **Mac computers are not acceptable** as they are not supported by the software used by the AEC industry.
- 10th Generation Intel i5-10210U Processor (quad core, 1.6 GHz base clock with 4.2GHz Turbo Boost, 6MB cache)
- 8GB RAM
- Direct X 12 capable graphics card or on-board graphics processor
- 500GB or larger solid state drive
- 15" Screen (preferred, smaller is acceptable but harder to work with)
- **Approximate Cost: \$600-\$800**

*Note: When purchasing a laptop exceeding the minimum requirements, priority should be given to an upgraded processor.

Recommended Requirements:

- Windows 64-bit operating system. **Mac computers are not acceptable** as they are not supported by the software used by the AEC industry.
- 10th Generation Intel i7-10750H Processor (6-core, 2.6GHz base clock with 5.0GHz Turbo Boost, 12MB cache)
- 12GB RAM
- Dedicated Graphics card with 2GB memory
- 500GB or larger solid state drive
- 17" Screen
- **Approximate Cost: \$1,000-\$1,200**

Laptops meeting the above minimum specifications are required for the following courses:

Architectural Engineering	Construction Science
ARE 521-Computer Aided ARE Design	ARE 310-Intro to AutoCAD
ARE 561-Electrical Systems 2	ARE 312-Intro to BIM
ARE 563-Structural Systems 2	CNS325-Construction Documents
ARE 571- Systems Integration and Design	CNS 510-Tech Management
ARE 671-ARE Capstone	CNS 544-ASC Competition
ARE 712-Energy Modeling	CNS 641-Construction Estimating
ARE 715-AEI Competition Team	CNS 643-Pre-Construction
ARE 731-Advanced Lighting Design	CNS 645-Construction Scheduling
ARE 735-Electrical Systems Design	CNS 660-Construction Operations
CNS 738-Mechanical and Electrical Estimating	CNS 738-Mechanical and Electrical Estimating