



# EDUCATIONAL SYSTEMS PLANNING

## Capital School District (DE) Dover High School

Educational Systems Planning recently provided technology planning and voice, video, AV, security, and data communications infrastructure design for the new Dover High School. The school is designed for a capacity of 1,800 students in a building of approximately 300,000 square feet. A 900 seat auditorium with performing arts center, enhanced vocational program offerings, a 2,500-seat gymnasium, a 5,000-seat athletic stadium along with two synthetic turf fields integrate a state-of-the-art learning environment while preserving and blending with the historical backdrop of Dover.

The school-wide computer network is an implementation of 10/100/1000 BASE-T Cat 6 UTP Fast Ethernet and 1000 BASE-LX over multimode/single mode fiber, complying with the Institute of Electrical Engineers' (IEEE) 802.3 standards for Ethernet. The system includes the associated infrastructure to implement a school-wide wireless system.

Classroom AV systems include a combination of content origination sources, input sources, cable and pathway infrastructure, display devices, audio devices, speakers and microphones to provide a rich multimedia experience within the classroom environment. The specific system allow a presenter's voice to be amplified via a collar or a hand-held infrared microphone. The system is integrated with other classroom equipment such as the LCD projector, laptop, DVD, data network and cable connections to amplify sound from those sources as well. The system has the ability act as a mixer to switch audio sources and control volume levels on multiple inputs.



The school opened in 2015



### **Client:**

*Capital School District*

### **Location:**

*Dover, DE*

### **Services:**

*Voice, Video, AV,*

*Data, and Security*

*Systems IT Design*

### **Relevant Facts:**

- *Design bid build delivery system*
- *300,000 SF new school*
- *\$142,000,000 CCE*
- *Wireless LAN*
- *A/V presentation to LCD projector*
- *Building-wide data, and telephone, systems*
- *1,800 students 9 through 12*
- *Seven learning academies including a 9th grade academy*