University of North Carolina-Greensboro Case Study

AFL Designs Cabling Network Infrastructure for New Academic Classroom and Office Building

Summary

AFL provided a Cat6 structured cabling network infrastructure for a new five-story, 120,200 square-foot general classroom and office building facility for the University of North Carolina at Greensboro (UNCG) School of Education.

Challenge

The facility contains approximately 200 offices, a 300-seat auditorium, a 200-seat auditorium, a 100-seat case study classroom and 16 multi-station classrooms, along with required support areas. Roughly one-third of the cabling required on the project fed directly to student seats in the auditoriums and case-study classrooms, which made pathway planning and coordination a challenge.

Solution

AFL worked hand-in-hand with the general contractor, electrical contractor, architect, design team and campus IT staff to closely coordinate the installation effort. Approximately 525,000 feet of Cat6 cabling was installed to 2,500 device locations which included PCs, VoIP phones, projectors, wireless access points and flatscreen TVs. AFL built five state-of-the-art telecommunications rooms, which were interconnected with fiber-optic and copper backbone cabling. These telecommunications rooms were tied into the campus data network via a fiber-optic link travelling in a new duct bank connected to a neighboring building. Additionally, AFL provided design assistance in planning the routing of the new duct bank, handhole and conduit sizing. To avoid disruption of ongoing campus activities, AFL implemented a flexible work schedule to meet the project deadline.

Results

Students enrolled in the UNCG School of Education program are able to enjoy a state-of-the art classroom environment with high-bandwidth network connections throughout as they prepare to enter the workforce as future educators.

AFL