

CLAYTON COLLEGE & STATE UNIVERSITY – Morrow, Georgia

NEW LEARNING CENTER

SCOPE New 4-story 120,000 square foot combination classroom and administrative office building. The HVAC design included air-to-air recovery units, a complete Direct Digital Control System, and a 120,000 CFM smoke exhaust system serving the four-story atrium space. Seven air-handling units were used to match the occupancy zoning of building to maximize On/Off control of air-handling units and energy efficiency. New 370-ton centrifugal chiller and two fully condensing-type 2 MMBTUH boilers part of a stand-alone Central Plant serving this building.



Owner

Board of Regents

Mechanical Contractor

MCI

Prime Consultant

Gardner Spencer Smith Tench
& Hensley PC

Construction Cost

\$17,700,000 (total)
\$2,700,000 (mechanical)

SPECIAL CIRCUMSTANCES

- Mechanical systems designed to accommodate "open" style of circulation spaces in the building and maximized ceiling heights in all classrooms with riser style seating
- Dual-purpose air handling units designed to meet the "normal mode" HVAC requirements of the Atrium and to meet the 100% make-up air / outside air requirements in the "smoke evacuation mode". Exhaust air system capability of 120,000 CFM.
- Siting of Chiller Room, Boiler Room and Cooling Tower Enclosure to accommodate acoustic and aesthetic concerns for new building and surrounding, existing campus environment.
- Total energy recovery-type air-to-air heat exchangers.
- Room occupancy-type sensors used to reduce outside air intake by air handling units when classrooms unoccupied. Automated, variable volume outside air intake control.



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