



NEW ACADEMIC BUILDING AT WOODSWORTH COLLEGE

TORONTO, ON

QUICK FACTS

- + Design-Bid
- + Post-Secondary
- + 60,000 square feet
- + \$36-Million Budget
- + Canadian Architect,
Award of Merit (2021)
- + Smith + Andersen
Mechanical, Electrical,
Communications, Security,
Audio-Visual
- + Sustainability Services
(Footprint)



RENDERING COURTESY OF KONGATS ARCHITECTS.



NEW ACADEMIC BUILDING AT WOODSWORTH COLLEGE

ABOUT THIS PROJECT

- + Development of a New Academic Building at Woodsworth College, on the University of Toronto's St. George Campus.
- + Features a new student hub (learning commons), library, atrium, and classrooms, as well as the replacement and expansion of existing event, student, and office spaces.
- + Project scope included the selected demolition of an existing structure in order to construct the new six-storey building (with two below-grade levels) on the site.
- + Smith + Andersen has a long relationship with the University of Toronto, and leveraged our extensive knowledge of the university's design standards and experience on past projects for the client.
- + A chilled beam system with perimeter heating in office and administration areas allows each thermal zone to regulate its own heating and cooling - a more efficient system than the larger distribution required in traditional HVAC systems.
- + Overhead variable air volume air handling systems are utilized in assembly areas where the significant occupancy levels impact cooling loads.
- + An air-cooled chiller with heat recovery and water-side free cooling capabilities satisfies the building's simultaneous heating and cooling loads, and provides chilled water year-round.
- + Electrical design incorporates a new sub station for the entire Woodsworth College, designed to the University of Toronto's internal campus loop standard.
- + Audio-visual (AV) design supports a number of different spaces, including an active learning classroom, a traditional lecture classroom, administration offices, group study areas, and event spaces.
- + The lighting control system includes daylight and occupancy sensors throughout the building to optimize energy savings.
- + Electrical and telecommunication rooms were placed on alternate floors to accommodate the building's small floor plate.
- + Sustainable design solutions deliver a projected annual energy consumption performance target 40% better than ASHRAE Standard 90.1-2013, Section 11.

LOCATION

Toronto, ON

SMITH + ANDERSEN SERVICES PROVIDED

Mechanical, Electrical,
Communications, Security,
Audio-Visual, Sustainability
(Footprint)

KEY TEAM MEMBERS

Kongats Architects
University of Toronto

SIZE

60,000 sq. ft. (5,600 sq. m.)

BUDGET

\$36 Million

COMPLETION YEAR

2021

AWARDS

Canadian Architect, *Award of
Merit* (2021)

HOT BUTTONS

DESIGN-BID

POST-SECONDARY

SUSTAINABLE DESIGN

MECHANICAL DESIGN

AUDIO-VISUAL

COMMUNICATIONS

SECURITY DESIGN

ELECTRICAL DESIGN