

LUC Francis Residence Hall

Project Highlights and Results

- 8-story, 133,400 square foot residence hall to achieve minimum LEED Silver designation (submitted under LEED v4.0 New Construction).
- 133 student dormitories (410 beds) on floors 2-8 with semi-private bathrooms, laundry room, and student lounge on each floor.
- Ground floor includes faculty apartments, common areas, offices, conference room, classrooms, multi-purpose room, fitness center, community kitchen, lounge, and café.
- Installed MEPFP systems will accommodate potential Phase II building extension with additional residence spaces.

Project Background

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|---------------------------|--|
| Owner: | Loyola University Chicago (LUC) |
| Location: | Chicago, IL (Lake Shore Campus) |
| Team/Team Lead: | Brian Malone, Bhupendra Tailor, Tareq Abdelrahim |
| Elara Role: | MEFPFIT Engineering Design |
| Type: | New Construction |
| Construction Cost: | \$35,000,000 |

Project Overview

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|------------------------------|---|
| Building Type: | Higher Education, Residential |
| Building Attributes: | 8-Stories; 133,400 SF |
| Initial Construction: | 2019 |
| MEFPFIT Systems: | DOAS with CO ₂ Controls, VRF Air-Source Heat Pumps, Airside Energy Recovery, Ultra Water Conserving Toilets, Occupancy Based Controls for Plug Loads |

Innovation

- Mechanical system sustainability design features, include; heat recovery VRF units and DOAS system with CO₂ controls, energy recovery from exhaust air, high efficiency boilers, and variable speed compressors for VRF units.
- Natural ventilation design elements include a first-floor motorized façade that opens entirely to the adjacent grade providing a connection between indoor and outdoor elements.
- Plumbing system sustainability design features, include; ultra-low flow water closets, low-flow showers, and separate irrigation/non-potable loop.
- Electrical system sustainability design features include LED lighting/automatic light controls, automatic plug load control, and power monitoring.

FIRST PLACE

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