

LUC de Nobili Hall

Project Highlights and Results

- LEED Certified
- The LEED energy model for the building predicted an energy cost reduction of over 40% when compared to an ASHRAE 90.1 baseline building
- Elara's design included a high-efficiency condensing boiler plant located in the penthouse and two air-cooled chillers relocated from another campus building
- All building spaces, except the lobby, kitchen and serving areas, have operable windows for natural ventilation

Project Background

Owner:	Loyola University Chicago (LUC)
Location:	Chicago, IL (Lake Shore Campus)
Team/Team Lead:	Don McLauchlan, Steve Maze, Claudine Harig, Bhupendra Tailor
Elara Role:	MEFPFIT Engineering Design
Type:	New Construction
Construction Cost:	\$21,500,000

Project Overview

Building Type:	Higher Education; Housing, Food Service/Dining, Office Space, Lounges, Multipurpose Rooms
Building Attributes:	4 Stories, 74,800 SF
Initial Construction:	2013
MEFPFIT Systems:	Condensing Boiler Plant, Air Cooled Chiller Plant, 2-Pipe FCU, Radiant Heating, Natural Ventilation, DOAS w/ DCV, Variable Kitchen Ventilation, DDC

Innovation

- Hydronic radiant heating provides supplemental heat in restrooms, student lounges, lobby, multipurpose rooms, and dining area.
- The kitchen has 6 exhaust hoods; each with a dedicated fan and controlled by the Melink Intellihood system.
- Makeup air is supplied to each hood from a variable-volume direct-fired makeup air unit with 2-position dampers connected to each hood to supply air only to hoods that are in use.
- Modular fan coil units control space temperature in the dormitory rooms and support spaces.

