

LUC Halas Hall

Project Highlights and Results

- LEED Silver Achieved
- Design utilized existing campus chilled water for cooling and high-efficiency hot water boilers that were installed as part of a separate project
- Building systems controlled through a state-of-the-art building automation system

Project Background

Owner:	Loyola University Chicago (LUC)
Location:	Chicago, IL (Lake Shore Campus)
Team/Team Lead:	Don McLauchlan, Adam Sanders, Bhupendra Tailor
Elara Role:	MEFPFIT Engineering Design
Type:	Addition and Renovation
Construction Cost:	\$19,500,000

Project Overview

Building Type:	Higher Education; Recreation Center w/ Pool, Locker Rooms, Athletic Courts, Fitness Studios & Rock Wall
Building Attributes:	2 Stories, 71,000 SF
Initial Construction:	1985, 2013
MEFPFIT Systems:	Campus CHW, High Efficiency Boiler Plants (Heating, DHW & Pool Heating), Custom VAV AHUs, Perimeter Radiation, DDC

Innovation

- The original building consists of a basement and two floors; all of which are utilized for indoor athletic activities.
- The 3-story addition has a partial mechanical penthouse tower and amenities that include: a swimming pool, racquetball courts, basketball courts, exercise rooms, dance studio, indoor track, weight and cardio rooms, a lounge, cafe and administrative areas.
- Elara's design utilizes existing campus chilled water for cooling and existing hot water boilers that were designed by Elara as part of a previous project
- Ventilation and cooling is provided by custom air handling units serving first, second and third floor variable air volume systems.
- Radiant baseboard panels are used for supplemental perimeter heating in addition to radiant floor heating.
- Building systems are controlled through a state-of-the-art building automation system.
- Building design includes an intelligently controlled smoke exhaust system for the facility's Atrium.

