

LUC Damen Student Center/ Alumni Student Center

Project Highlights and Results

- LEED Silver rating.
- Designed building projected to perform 43% better than an ASHRAE baseline building

Project Background

Owner:	Loyola University Chicago (LUC)
Location:	Chicago, IL (Lake Shore Campus)
Team/Team Lead:	Don McLauchlan, Adam Sanders
Elara Role:	MEFPFIT Engineering Design
Type:	New Construction
Construction Cost:	\$30,300,000

Project Overview

Building Type:	Higher Education, Dining, Meeting Spaces, Offices
Building Attributes:	2-Stories; 114,000 SF; Recreation/Activity Spaces, Dining, Meeting Rooms, Offices
Initial Construction:	2013
MEFPFIT Systems:	Condensing Boilers, VAV AHUs, Displacement Ventilation, DOAS, Radiant Panels, DDC

Innovation

- Earth Duct pre-conditions MUA to reduce operational costs, provide opportunity for downsized (less costly) HVAC equipment, and accommodate flexible design and installation configurations.
- Additional energy efficient strategies employed including:
 - Campus chilled water
 - High-efficiency modular condensing boiler plant
 - Four custom AHUs, two VAV units and two displacement ventilation units
 - Dedicated kitchen makeup air unit
 - Dual temperature radiant panels (1st & 2nd floors)
 - State-of-the-art building automation system
 - Daylighting

