**Major Ideas Incorporated Into Design**

- LEAN Principles
- Sustainability
- State of the Art Technology
- Scalability of Design
- Open Communication Between Staff
- Geriatric vs. Pediatric
- Privacy
- Security
- Healing environment

**LEAN**

LEAN is a management system with the following goals

- Identification and steady elimination of waste
- Improvement of quality
- Improvement of production time
- Cost reduction—human, monetary, etc.

**Problem:** A large number of metropolitan Chicago’s population is uninsured or underinsured and do not have a means of receiving long term health care.

**SOLUTION:** Design a state of the art community health care center to improve the quality of care provided.

**Team**

- **Corina Abrudan**
  Civil Engineering
- **Alex Bauer**
  Civil Engineering
- **Larissa Groszko**
  Architecture
- **Chris Heppel**
  Architecture
- **Christine Ly**
  Architecture
- **Jeremy Moore**
  Architecture
- **Jessica Patera**
  Architecture
- **Rafal Stawarz**
  Architecture
- **Ryan Strand**
  Computer Engineering
- **Dan Tian**
  Biomedical Engineering

**Acknowledgements**

- **Steven Glass**
  Chief Information Officer/ Performance Improvement Officer
- **Bessie Harris**
  Director, Performance Improvement and Systems Redesign

- **Matthew Miller, AIA**
  Architect

- **Daniel Ferguson**
  Professor
Facility Design

**Design Group 1:** Jessica Patera, Alex Bauer, Dan Tian, Christine Ly, Rafal Stawarz, Corina Abrudan

**Design Group 2:** Larissa Groszko, Ryan Strand, Chris Heppel

### Objectives
- Create floor plan for a community health center of the future
- Create an expandable and contractible floor plan design
- Incorporate LEAN principles, adjacency diagram, and technology research into design

### Deliverables
- Final floor plan designs from both groups
- Assumptions and objectives implemented in the design

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Process Mapping

**Group Members:** Larissa Groszko, Corina Abrudan, Dan Tian, Jeremy Moore, Jessica Patera

**5 Sub teams:**
- Registration
- Examination
- Lab
- Referral
- Discharge

**Objectives**
- Create process map for each process
- Incorporate length of time into process maps

**Research**
- Site visit and observations
- Interviews on processes with Access staff
- Guide to process mapping book
- LEAN principles

**Deliverables**
- Process maps for each process approved by Access

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State of the Art

**Group Members:** Alex Bauer, Christine Ly, Rafal Stawarz, Ryan Strand, Chris Heppel

### 4 Research Areas:
- Infection Control
- Information Technology
- Medical Technology
- Sustainable Technology

**Objectives**
- Determine the direction of future technologies
- Incorporate the advances in technology into the design of the facility

**Research**
- Interviews with professionals who have knowledge of the current trends in medical technology
- Researching current technology and projecting the likely development over the next five to ten years

**Deliverables**
- Top ten technologies to be included in the final design of the facility

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State of the Art

**Group Members:** Alex Bauer, Christine Ly, Rafal Stawarz, Ryan Strand, Chris Heppel

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