IPRO 335  Green Building Design Concepts and Integration
What it means to Build Green

Reduce resource consumption of buildings

Reduce environmental impact

Create better living and working spaces
Problem Statement

Why is there a need for a green building?

How can green building design be achieved in a cold climate city like Chicago?
Goals
Organization

Team Leader: Aris Avanessian

Lead Architect: Jacqueline Schaefer

Project Engineer: Ali Razeq

Architects:
- Eric Dexter
- Adrian Thovar Leon
- Jacqueline Schaefer
- Justine Banda
- Kibum Kim
- Hye Um
- Jeffrey Burke
- Robert Christo

Engineers:
- Aris Avanessian
- Andrew Mey
- Jonathon Okunaga
- Ali Razeq
- Joshua Bergerson
- Jeffrey Burke
- Robert Christo
Tasks

Green Building Design
Design Schedule

Weeks
1  2  3  4  5  6  7  8  9  10  11  12  13  14  15 Day

Architectural Design
Alternative Energy research
Structural Design
Energy modeling
Geothermal systems
Wind energy systems
Solar panel systems
Cost Estimation
Midterm Review
Final Report
Presentation
Brochure
Poster
Challenges

• **Current**
  – Change in professor mid-semester
  – Finding and implementing viable alternative energy sources.

• **Future**
  – Research into unfamiliar fields
  – Narrowing down from large amounts of information
  – Design Parameters
Conclusion

• Show that an efficient green building design can be built

• Work as a team to overcome challenges

• Successfully integrate alternative energy systems and green design with the building while making it architecturally appealing.
Questions?