

THE PROBLEM

This class was a five week course during the second session of summer 2014, it started June 30th and lasted until August 1st. During this time we had to learn about the LEED documentation process along with the information about the Northwest Arkansas Free Health Center, so that we could do all the documentation and get it certified. Since the building had just recently been gutted and redesigned, so all that we were in charge of was getting all the information together and organized for the LEED documentation. Most people didn't think that we would be able to get everything done in time.

THE PROJECT

On the first day of class we were divided into six groups, and each group was assigned one of the core concepts. Once we had been assigned our core concepts we had to do research and figure out what credits we could go after and which ones we couldn't. We then had to present the information that we had learned to the rest of the class the next day. Plus we went to the building as a class one day to actually see the space,

We would meet every weekday for 4 hours to work on research and looking through all the files and paperwork sent over from the architect firm. Plus we would have guest speakers that would come every Monday, Wednesday and Friday that would tell us a little more about the project and answer any of our questions. If one group got done with the section that they were working on then they could go help another section.

Fayetteville, AR
Northwest Arkansas Free Health Center
LEED for Commercial Interiors (v2009)
Attempted: 53, Denied: 2, Pending: 0, Awarded: 51 of 110 points

Category	Points	Score
SUSTAINABLE SITES	15 OF 21	
SSc1 Site Selection	5 / 5	Y
SSc2 Development Density and Community Connectivity	6 / 6	
SSc3.1 Alternative Transportation-Public Transportation Access	0 / 6	
SSc3.2 Alternative Transportation-Bicycle Storage and Changing Room	2 / 2	
SSc3.3 Alternative Transportation-Parking Availability	2 / 2	
WATER EFFICIENCY	6 OF 11	
WEp1 Water Use Reduction-20% Reduction	Y	
WEc1 Water Use Reduction	6 / 11	
ENERGY AND ATMOSPHERE	22 OF 37	
EAp1 Fundamental Commissioning of the Building Energy Systems	Y	
EAp2 Minimum Energy Performance	Y	
EAp3 Fundamental Refrigerant Mgmt	Y	
EAc1.1 Optimize Energy Performance-Lighting Power	5 / 5	
EAc1.2 Optimize Energy Performance-Lighting Controls	1 / 3	
EAc1.3 Optimize Energy Performance-HVAC	10 / 10	
EAc1.4 Optimize Energy Performance-Equipment and Appliances	1 / 4	
EAc2 Enhanced Commissioning	0 / 5	
EAc3 Measurement and Verification	0 / 5	
EAc4 Green Power	5 / 5	
MATERIALS AND RESOURCES	2 OF 14	
MRp1 Storage and Collection of Recyclables	Y	
MRc1.1 Tenant Space-Long-Term Commitment	0 / 1	
MRc1.2 Building Reuse	0 / 2	
MRc2 Construction Waste Mgmt	1 / 2	
MRc3.1 Materials Reuse	0 / 2	
MRc3.2 Materials Reuse-Furniture and Furnishings	1 / 1	
MRc4 Recycled Content	0 / 2	
MRc5 Regional Materials	0 / 2	
MRc6 Rapidly Renewable Materials	0 / 1	
MRc7 Certified Wood	0 / 1	
INDOOR ENVIRONMENTAL QUALITY	1 OF 17	
IEQp1 Minimum IAQ Performance	Y	
IEQp2 Environmental Tobacco Smoke (ETS) Control	Y	
IEQc1 Outdoor Air Delivery Monitoring	0 / 1	
IEQc2 Increased Ventilation	0 / 1	
IEQc3.1 Construction IAQ Mgmt Plan-During Construction	0 / 1	
IEQc3.2 Construction IAQ Mgmt Plan-Before Occupancy	0 / 1	
IEQc4.1 Low-Emitting Materials-Adhesives and Sealants	0 / 1	
IEQc4.2 Low-Emitting Materials-Paints and Coatings	1 / 1	
IEQc4.3 Low-Emitting Materials-Flooring Systems	0 / 1	
IEQc4.4 Low-Emitting Materials-Composite Wood and Agrifiber Products	0 / 1	
IEQc4.5 Low-Emitting Materials-Systems Furniture and Seating	0 / 1	
IEQc5 Indoor Chemical and Pollutant Source Control	0 / 1	
IEQc6.1 Controllability of Systems-Lighting	0 / 1	
IEQc6.2 Controllability of Systems-Thermal Comfort	0 / 1	
IEQc7.1 Thermal Comfort-Design	0 / 1	
IEQc7.2 Thermal Comfort-Verification	0 / 1	
IEQc8.1 Daylight and Views-Daylight	0 / 2	
IEQc8.2 Daylight and Views-Views for Seated Spaces	0 / 1	
INNOVATION IN DESIGN	3 OF 6	
IDc1.1 Innovation in Design - Educational Outreach Program	0 / 1	
IDc1.1 Innovation in Design	0 / 1	
IDc1.2 Innovation in Design - EP EAc1.1	1 / 1	
IDc1.2 Innovation in Design	0 / 1	
IDc1.3 Innovation in Design	0 / 1	
IDc1.3 Innovation in Design - EP EAc4	1 / 1	
IDc1.4 Innovation in Design - EAc1.3	0 / 1	
IDc1.4 Innovation in Design	0 / 1	
IDc1.5 Innovation in Design	0 / 1	
IDc1.5 Innovation in Design	0 / 1	
IDc2 LEEDAP Accredited Professional	1 / 1	
REGIONAL PRIORITY CREDITS	2 OF 4	
SSc1 Site Selection	0 / 1	
SSc3.1 Alternative Transportation-Public Transportation Access	0 / 1	
WEc1 Water Use Reduction	1 / 1	
EAc1.1 Optimize Energy Performance-Lighting Power	1 / 1	
IEQc7.1 Thermal Comfort-Design	0 / 1	
TOTAL	51 OF 110	

40-49 Points CERTIFIED 50-59 Points SILVER 60-79 Points GOLD 80+ Points PLATINUM

THE PROJECT

I was in the energy and atmosphere group and we divided it up amongst us. I mainly worked on the lighting aspect which was part of prerequisite 2 and credit 1.1, but I also did prerequisite 3.

I helped out the rest of my team and the other groups when I could.

In the end we got everything done in time and submitted. It took a little while to hear back from them and the first submission they had some questions about certain things. So we fixed the areas that they had questions about and submitted it again. After the second submission we were reward the silver certificate with a total of 51 of 110 points. The people that we were doing all the documentation for were really just hoping to get certified but we were able to get the silver.



SUSTAINABILITY

This project contributes to sustainability in the social, built and natural systems.

This project primarily addresses the social systems of sustainability by having us work together as a team and working with those who do work with making buildings LEED certified. Plus for one of the credits a person created and educational pamphlet that could be displayed and that people could read and see exactly how the building was LEED certified.

The built system is addressed in that the buildings interior was gutted and redesigned to be more energy efficient.

The natural system is addressed since some of us learned if the plants that were planted were native to the region.

PHOTOS

Top left is the Scorecard from LEED

Top right is a picture of the entrance to the building

Bottom right is a picture of one of the waiting rooms inside.

OVERVIEW

Completing this project has solidified my interest in pursuing a career in sustainability by possibly getting a Masters degree dealing with the built system and maybe become a LEED Accredited Professional. It is obvious to me that if we want to have a more sustainable society, education and outreach is critical to motivating individuals to become environmental stewards. I was even curious to learn if there were more programs out there that were like LEED, which I found the Sustainable SITES Initiative and the Living Building Challenge. I found one building that tried to get the highest rating for all three of the programs I mentioned above.