

EGR 353 Green Architectural Engineering
Project #2, *Revised 11/14/18*
**LEED Platinum Building Design (“BD+C”) or
LEED Platinum Building Interior Design (“ID+C”)**

Fall 2018; Worth 30% of course grade
Due Monday, December 10 at 11:00AM in E273
J Wunderlich PhD

Design a LEED Platinum Building (“**BD+C**” **Building Design & Construction**) or Building Interior (“**ID+C**” **Interior Design & Construction**) to LEED version 4 standards. Go to the USGBC (United States Green Building Council) website and select relevant Case Studies for general ideas and inspiration:

- USGBC database of projects: <https://www.usgbc.org/projects>

Your project can be any size, however the complexity of each part of your design must be more in depth if it is very small. Reference parts of project #1 if you choose to locate this project in your project #1 LEED Neighborhood Design.

Do one of the following:

1. Read the LEED documentation for certifying Buildings (“**BD+C**” **Building Design & Construction**)
 - "LEED v4 **BDC_07.2.18_current.pdf**" in the class folder in my public folderAnd you must include a LEED Checksheet for “**BD+C**” **Building Design & Construction**
 - "LEED v4 for **Building Design and Construction_1 PAGE.xlsx**" (also in that folder — **click the tab in the spreadsheet for the type of BD+C project you choose**):
2. Read the LEED documentation for certifying Building Interiors (“**ID+C**” **Interior Design & Construction**)
 - "LEED v4 **IDC_07.2.18_current.pdf**" in the class folder in my public folderAnd you must include a LEED Checksheet for “**ID+C**” **Interior Design & Construction**
 - "LEED v4 for **Interior Design and Construction Checklist_1 PAGE_0.xlsx**" (also in that folder — **click the tab in the spreadsheet for the type of ID+C project you choose**):

Syllabus details for paper and presentation:

DESIGN PROJECT #1: Design a LEED “PLATINUM” Neighborhood to LEED version 4.0 standards

DESIGN PROJECT #2: Design a LEED “PLATINUM” Building or Building Interior to version 4.0 standards

- Groups of one or two (expectations proportional to group size)
- Much creative content is expected! – Free-hand, pencil-drawn, or CAD images, and/or hand-built models
- Use of Computer generated images is optional, however tutorials have been created on Dr W’s site: http://users.etown.edu/w/wunderit/home_Lab_Manuals.html

PAPER & PRESENTATION

- On due date, submit at the beginning of class:
 - A printed stapled copy of your paper (including images of all creative work)
 - Copies of your PowerPoint slides (six slides per page)
- Paper and Presentation must include much content from lectures
- Paper requirements
 - Single-spaced, 10-point font
 - A minimum of **2,500** words
 - An Abstract (100 to 200 words)
 - A section containing detailed narrative and data (demographics, etc) on your site selection, land development, and integration with surrounding land usage, culture, infrastructure, topography, and natural habitats
 - Many images of original creative work by each team member (put their name under each image)
 - LEED self-assessment of your project (using an official LEED Rating Form)
 - An annotated bibliography using **MLA** citation formatting and no more than two non-scholarly citations

Expectations for presentations

Minimize unnecessary details; A picture is worth a thousand words, and Architecture Presentations should be a visual as possible!; Less than 30 words per slide; Don’t have too many slides; Ensure good contrast between text and background (will the lights be on?); Put an image on every page (clip-art, photo, animation, a sketch) which is an abstraction of the subject; Don’t read from script or speak monotonically; Make eye contact with audience; Have a clear objective (to sell design, to motivate, or to report findings); Have a good opener (an agenda, a quotation, a question, or a declaration) ; tBe organized and logical (present problem then solution; or have priorities – least-to-most or most-to-least); Have audience’s expectations understood (provide meaning and/or motivation); Have good transitions between main points; Have a good closing (summarize main ideas, restate purpose of presentation); Be flexible (adapt if questions are asked during presentation)

NOTE: *A separate paper is required for project #2, but you can certainly reference parts of you project #1 paper. The second project is a LEED platinum design of any type of building or building interior you wish, and presumably located within the neighborhood development of your project #1; however this is not a requirement*