

Course Syllabus**Semester:** Summer 2007**Course:** CNST 3903 (special topic Sustainable Construction)**Construction Course Title:** BTM 4 – Building Techniques & Methods 4 (3 – 0 – 3)**Prerequisite(s):** CNST 3160 & CNST 3410**Classroom:** To be Determined – VISTA assisted**Class Periods:****Text:** LEED Reference Guide For New Construction & Major Renovations

Version 2.2 – edition 2

Available from US Green Building Council

Grading Policy:

A = 90 to 100

B = 80 to 89

C = 70 to 79

D = 60 to 69

F = 0 to 59

examinations 15%,

final 40%,

homework 45%,

total 100%

students are expected to submit homework each week and to attend class meetings.

Instructor: Dr. John Mench**Office:** Room #H331**Office Hours:** VIATA**Telephone:** none**Fax:** none**E-mail:** via VISTA

Class	Date	Subject of Lecture/Lab	Assignments Due	Reference(s)
1		Construction Project Financials	assignments posted	webct & handout
2		The time value of money		webct
3		Return on investment		webct
4		Examination One		
5		Overview of the LEED Process		webct & text
6		Overview of Sustainable Sites & Prerequisite	Registered Project Checklist	webct & text
7		Credit 1 & 2		webct & text
8		Credit 3 & 4		webct & text
9		Credits 5 & 6		webct & text
10		Credit 7 & 8		webct & text
11		Overview of Water Efficiency		webct & text
12		Credits 1 & 2		webct & text
13		Credits 3 & Overview Energy & Atmosphere		webct & text
14		Examination Two		
15		Prerequisites and Credit 1		webct & text
16		Credits 2 & 3		webct & text
17		Credits 4 through 6		webct & text
18		Overview of Materials & Resources Prerequisite		webct & text
19		Credits 1 through 3		webct & text
20		Credits 4 & 5		webct & text
21		Credits 6 & 7		webct & text
22		Examination Three		
23		Overview of Indoor Environmental Quality and Prerequisites		webct & text
24		Credits 1 through 3		webct & text
25		Credits 4 & 5		webct & text
26		Credits 6 & 7		webct & text
27		Credit 8		webct & text
28		Innovation & Design Process		webct & text
29		Answer Questions & Review		webct & text
30				

NOTE: *This syllabus is intended to represent the general format of the class. The instructor may make changes if it is determined that such changes will better suit the needs of the students.*

Catalog Description:

The principles of construction project management applied to the LEED new building certification process. Emphasis will be placed on how LEED project certification influences the overall construction project. Topics will include LEED certification techniques for sustainable sites, water efficiency, energy & atmosphere, materials & resources, indoor environmental quality, innovation and design. The following MEP systems will be covered from a LEED perspective ventilation, air conditioning, heating, electrical lighting and building control systems. The student will study, and analyze how management and LEED techniques are applied to current construction projects.

Course Objectives: By the end of the course the student should be able to:

1. fill out the LEED certification process
2. list why MEP building systems are very important for performance certification
3. list how construction management is influenced by the LEED process
4. show how to compare baseline data to design data concerning MEP systems performance and costs
5. calculate the return on investment use for making decisions concerning LEED credits

Specific Requirements for the Course: Complete forms necessary to show compliance with ten LEED points.

Final examination: Refer to the university schedule for date

Additional Notes:

NOTE 1

The course description and course schedule handouts provide the general framework for the course. However, the instructor reserves the right to make any modifications or changes to the course, depending on the class progress, or on any special circumstance that may arise during the semester.

NOTE 2

There will be no curve for the final grade, only straight averages. The minimum cutoff for an A is 89.5% and above; for a B is 79.5% and above; for a C is 69.5% and above; and for a D is 59.5% and above. Anything below 59.5% is considered an F. The instructor reserves the right to lower these cutoff values depending on specific circumstances surrounding the overall performance of the class.

NOTE 3

Students with disabilities who believe that they may need accommodations in this class are encouraged to contact the counselor working with disabilities at (678) 915-7226 as soon as possible to better ensure that such accommodations are implemented in a timely fashion.

NOTE 4

It is assumed that by this time in the student's matriculation, he/she is well-versed with what constitutes plagiarism. Proper citation of references is required for this and all your coursework in the CNST program. Failure to comply with this requirement may result in disciplinary action.

