

LAND 4730/6730 ~ Issues and Practices in Sustainable Design

Spring 2013

Course: 2 credit hours
Tuesday & Thursday
11:00 am – 12:15 pm
Room 125, Jackson Street Building (JSB)

Instructor: Alfie Vick, Associate Professor
Office: 202 Denmark Hall
Office Hours: come by anytime or make an appointment
Phone: 542-6550
email: ravick@uga.edu

Course Description:

This course focuses on the issues and practices used in contemporary green buildings, including the US Green Building Council's LEED (Leadership in Energy and Environmental Design) Rating System. The course will prepare students to take the LEED Green Associate exam, if they choose to do so, during or after the course.

Course objectives or expected learning outcomes:

- Understanding of the issues and practices used in contemporary green buildings.
- Understanding of the process of implementing green building strategies to real projects.
- Understanding of the LEED Rating System.
- Preparation to take the LEED Green Associate exam upon completion of the course.

Methods:

Lectures, readings, discussions and site visits.

Readings:

Required Textbook

Kibert, C. J , 2012, *Sustainable Construction: Green Building Design and Delivery*, 3rd Edition, John Wiley & Sons.

Required Readings

Green Building Certification Institute, 2008, *LEED Green Associate Candidate Handbook*, available for download at:

<http://www.gbci.org/main-nav/professional-credentials/candidate-handbooks.aspx>

Matthiessen, L.F. and Morris, Peter, 2007, *The Cost of Green Revisited*, David Langdon, available for download at

<http://www.davislangdon.com/USA/Research/ResearchFinder/2007-The-Cost-of-Green-Revisited/>

*US Green Building Council, 2011, *Green Building and LEED Core Concepts Guide, Second Edition*. Available for purchase at:

http://www.usgbc.org/Store/PublicationsList_New.aspx?CMSPageID=1518

US Green Building Council, 2010, *LEED 2009 for New Construction and Major Renovation Rating System*, available for download at:

<http://www.usgbc.org/ShowFile.aspx?DocumentID=7244>

US Green Building Council, 2005, *LEED v2.2 for New Construction and Major Renovation Reference Guide*, available in .pdf format on E Learning Commons (print-protected)

US Green Building Council website, 2012, www.usgbc.org

Green Building Certification Institute website, 2011, www.gbci.org

Recommended

US Green Building Council, 2009, *USGBC LEED Green Associate Study Guide*. Available for purchase at: <http://new.usgbc.org/store>

US Green Building Council, 2010, *LEED 2009 Building Design + Construction Reference Guide*, available for purchase at:

<http://new.usgbc.org/store>

Green Building Certification Institute, 2008, *LEED AP Candidate Handbooks*, available for download at:

<http://new.usgbc.org/resources/list/exam-resources>

www.buildinggreen.com – Publishers of *Environmental Building News*, Building Green, Inc. is “... an independent publishing company committed to bringing our members accurate, unbiased, and timely green design information.”

www.cascadiagbc.org – Read about the Living Building Challenge, pushing towards the next generation of green buildings.

www.pharosproject.net – “The Pharos Project seeks to define a consumer-driven vision of truly green building materials and how they should be evaluated in harmony with principles of environmental health and justice.”

www.wbdg.org – “The gateway to up-to-date information on integrated ‘whole building’ design techniques and technologies.”

Class Standards:

Evaluation

Evaluation will be based on performance on exams/quizzes and participation throughout the semester.

Exams – a midterm and non-cumulative final, each worth 100 points

Quizzes – Five quizzes, worth 10 points each will be given throughout the semester, typically following presentation of each of the five major subject areas related to the LEED Rating System (e.g., Sustainable Sites, Water Efficiency, ...)

Participation – Attendance will be taken at all guest lectures and site tours, worth a total of 50 points.

LEED Green Associate Exam – the LEED Green Associate Exam is optional. It is the student's responsibility to register for, schedule, and pay for the exam themselves. A copy of official scores must be presented to Professor Vick. The LEED Green Associate exam must be completed prior to May 2nd, the day prior to our final exam. See the following pages for an explanation of how this factors into the semester grade.

NOTE: If you already hold the LEED Green Associate or LEED AP credential, please see Professor Vick to discuss grading structure. This course does count towards the required CE credits to maintain your credential.

Grading Scale

Performance evaluation for undergraduate and graduate students will be based on percentages as follows:

A	= 90% - 100%
A-	= 89.5% - 90%
B+	= 88% - 89.5%
B	= 82% - 88%
B-	= 80% - 82%
C+	= 78% - 80%
C	= 72% - 78%
C-	= 70% - 72%
D	= 60% - 70%
F	< 60%

Undergraduate Grading Scenario 1

Default grading scenario for undergraduate students

Mid-term	100pts
Final	100pts
Quizzes	50pts
Participation	50pts
Total Points	300pts

Undergraduate Grading Scenario 2

Available only to undergraduate students who take the LEED Green Associate Exam prior to the final exam

Mid-term	Required
Quizzes	Required
LEED GA Exam*	<i>Pass</i> – Automatic 250/250 pts for midterm/ quizzes/final <i>Fail</i> – Choice of Scenario 1 or 3
Participation	50pts
Total Points	300pts

Undergraduate Grading Scenario 3

Available only to undergraduate students who take the LEED Green Associate Exam prior to the final exam

Mid-term	100pts
Quizzes	50pts
Participation	50pts
Total Points	200pts

A Research Project / Competition Entry must be completed by all students earning graduate credit for this course. The projects may be undertaken as individuals or small groups, as allowed by competition rules and approved by the course instructor. Completed projects must be presented in poster format to the class during the specified time and location.

One good source to identify competitions is: www.competitions.org

Graduate Grading Scenario 1

Default grading scenario for graduate students

Mid-term	100pts
Final	100pts
Quizzes	50pts
Participation	50pts
Research/competition	50pts
Total Points	350pts

Graduate Grading Scenario 2

Available only to graduate students who take the LEED Green Associate Exam prior to the final exam

Mid-term	Required
Quizzes	Required
LEED GA Exam*	Pass – Automatic 250/250 pts for midterm/quizzes/final Fail – Choice of Scenario 1 or 3
Participation	50pts
Research/competition	50pts
Total Points	350pts

Graduate Grading Scenario 3

Available only to graduate students who take the LEED Green Associate Exam prior to the final exam

Mid-term	100pts
Quizzes	50pts
Participation	50pts
Research/competition	50pts
Total Points	250pts

* The LEED Green Associate exam must be completed prior to May 2nd, the day prior to our final exam. It is the student's responsibility to register for, schedule, and pay for the exam themselves. A copy of official scores must be presented to Professor Vick.

Academic Honesty:

All students must be familiar with and adhere to the UGA Academic Honesty Policy, which can be found at:

<http://honesty.uga.edu/index.html>

"Each University of Georgia instructor has a responsibility to report to the Office of the Vice President for Instruction if he/she believes a student may have violated the University's academic honesty policy. Students who have knowledge of dishonesty should report the matter to the instructor responsible for the course." -- UGA Culture of Honesty website