

New York University
Shack Institute of Real Estate

Principles of Environmentally Sustainable Design
Fall 2009

Course # X63.9390-001

Meeting Date: Tuesday

Time: 6pm – 8pm

Start Date: 9/29/2009

End Date: 12/15/2009

Location: Norman Thomas, 111 East 33rd Street, Room 413

of Sessions: 10

Days Off: 11/11/2009

- Course Overview: This course walks students through the process of determining the best design for a green building. The class will have the opportunity to explore in detail the unique aspects of green design and the important analysis and selection process for materials.
- Course Objective: Upon completing this course, students will have the core fundamentals of sustainable design. Additionally, they will learn to address the unique challenges and advantages of green design.
- Instructor: Jason Safford, CEO
Safflyn Corporation
(917) 664-6334
gogreen@safflyn.com
- Required Book / Readings: There will be numerous case studies that are required reading for each class. Case studies will be posted in advance for the class. Case studies will be posted on Blackboard. Suggested reading includes –
The Kyoto Protocol by Joe McGovern
Profiting from Clean Energy: A Complete Guide to Trading Green in Solar, Wind, Ethanol, Fuel Cell, Carbon Credit Industries, and More by Richard Asplund
Winning with Accountability by Henry J. Evans
The Vertical Garden: From Nature to the City By Patrick Blanc

Animal, Vegetable, Miracle by Barbara Kingsolver
Brunelleschi's Dome by Ross King
The Story Of Architecture: Rameses To Rockefeller by Charles Harris Whitaker
Planning and Design Strategies for Sustainability and Profit: Pragmatic sustainable design on building and urban scales by Adrian Pitts
Future Forms and Designs for Sustainable Cities by Mike Jenks
Arcology: The City in the Image of Man by Paolo Soleri
Arcosanti Archetype: The Rebirth of Cities by Renaissance Thinker Paolo Soleri by Marie Wilson

Blackboard: We will use *Blackboard* extensively throughout the term. Case studies will be posted, supplemental articles, a discussion board, and other information regarding the class will be posted regularly. **Be sure to check email prior to each class so you are able to participate in discussions, as participation is a portion of your grade.** Blackboard sends emails to your NYU email account so either **check you NYU email or have the email forwarded to another email account.**

Attendance Policy: Class attendance is required for group work and critical to understanding course materials.

Grading Policy:

Mid-term	20%
Final Exam	50%
Assignments	10%
Class Participation	20%

Notes on Grading:

1. Exams must be submitted on time. Late submissions will have ten points (one full letter grade) deducted. Only with my permission and under unusual circumstances will an extension be granted.
2. Exams will be graded for clarity, logic, coherency, and grammatical/spelling accuracy. Be sure to proof-read all deliverables – do not rely on spell check!
3. Assignments must be submitted by given deadline and are necessary to demonstrate understanding of coursework.

4. Group presentation is to be made week before final exam. Each group will have allotted time to deliver presentation and answer questions.

Statement on Academic Integrity:

The Schack Institute of Real estate of New York University strives to promote an ethical learning environment and want to ensure that all students understand the concepts of academic integrity. We see this as an extremely important issue for the students' time at NYU-SCHACK INSTITUTE OF REAL ESTATE, but also for after graduation. Hence we require that all students familiarize themselves with the Statement of Academic Integrity as found on the following link: www.scps.nyu.edu/student-affairs/graduate/academic-policies/#scps-statement-on-academic-integrity-and-plagiarism

Please read the Statement of Academic Integrity carefully and make sure that you follow it whenever you submit anywork for this course. Also realize that there are a number of penalties associated with violating the Statement of Academic Integrity: They range from failure for a paper or a course to dismissal from the University.

Week 1 The Case for Sustainable Design

Recognizing the value and benefits of Sustainability and Environmental Accountability

Week 2 Permaculture

Understanding why closing the loop opens the door to more creative design

Week 3 Climate Level Considerations

Evaluating location, regional climate patterns and other environmental challenges

Week 4 Resource Management

Determining the best management systems for your building design

Week 5 Energy Evaluation

Identifying the energy systems that best protect your sustainable design

Week 6 Stamping the Envelope (Mid-term due at start of class)

Combining the systems, insulation and building functionality with marketability

Week 7 Mapping out Materials and Manufacturers

Identifying the suppliers and manufacturers with a 300-mile radius

Week 8 Green Roofs, Water Management, Air Quality

Advantages and unique opportunities in design

Week 9 Lighting, Accoustics and Building Information Management

Understanding the role of technology and data collection in subtle design features

Week 10 Bringing it all together

Delivering a final product (final exam)