Department of Art Syllabus: ART 370 Sustainable Design

Professor: Mrs. Mandy Berdami

Office Hours: Aven 405B, MW 3-4 p.m., T 9:30-11:30 a.m. or by appointment

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I. ART 370 *Sustainable Design,* 3 Credit hours

II. PRE-REQUISITES: ART 104

III. TEXTBOOKS:

USGBC, *LEED Green Associate Study Guide*, USGBC, 2009, ISBN: 978-1-932444-23-0

USGBC, *Green Building and LEED Core Concepts,* USGBC, 2009, ISBN: 978-1-932444-50-6

IV. COURSE DESCRIPTION

This course studies green building concepts, including sustainable site selection, water efficiency, energy efficiency, sustainable materials and resources, and indoor environmental quality.

V. RATIONALE

Interior Designers are now being required to incorporate green building strategies into their design concepts and product specifications. In order to specify sustainable products and develop green design concepts, one must possess basic knowledge of green building design.

VI. LEARNING OBJECTIVES AND OUTCOMES

A. The student will gain an understanding of green building concepts.
B. The student will gain an understanding of sustainable site selection.
C. The student will gain an understanding of water efficiency in green building.
D. The student will gain an understanding of energy efficiency in green building.

E. The student will gain an understanding of sustainable materials and resources.
F. The student will gain an understanding of healthful indoor environmental quality.
G. The student will be able to apply the above topics and concepts in the form of innovative design thinking for green building.

VII. COURSE TOPICS

A. USGBC
B. LEED
C. Sustainable Site Selection
D. Water Efficiency
E. Energy Efficiency
F. Sustainable materials
G. Indoor Environmental Quality

VIII. ASSIGNMENTS

Course Reading

Course reading includes reading assignments from "LEED Green Associate Study Guide," "Green Building and LEED Core Concepts," and website links posted throughout the semester.

Weekly Forum

Here you will respond to a learning activity I have posted concerning this week's readings. The learning activities are located at the end of each chapter and I will inform you which activity will be included in the weekly forum. In addition to your response, you will respond to at least two of your classmates' postings for each forum. Each week one forum will open on Sunday and close at 10:00 p.m. on Thursday. This design is meant to encourage you to interact with your classmates and consider your reading assignments throughout the week.

Category Review

The category review is located at the end of each chapter. Type the review questions and answers in a Microsoft Word document. Category reviews are to be submitted by 10:00 p.m. on Sunday.

Learning Activities

Learning activities are located at the end of each chapter. I will specify which activities to complete each week. Type each activity and activity response/answers in a Microsoft Word document. Learning activities are to be submitted by 10:00 p.m. on Sunday.

Practice Questions
Practice questions are located at the end of each chapter. Type the questions and your answers in a Microsoft Word document. Answer the questions without looking at the answers located in the back of your textbook. After answering the questions, look at the answers in the back of your textbook and note the correct answers below your answers. Please see example in this section. Points are not deducted for a wrong answer as long as the correct answer is noted below it. Practice questions are to be submitted by 10:00 p.m. on Sunday.

Quizzes
There are four quizzes throughout the semester. Each quiz has a time limit. Quizzes are comprised of multiple choice, true/false, and short answer questions covering information from chapter readings. Quizzes should be taken by 10:00 p.m. on Sunday.

Abstracts
There are five abstract assignments throughout the semester. Select a case study from "Green Building and LEED Core Concepts" or the USGBC website to complete an abstract. An abstract includes a summary of the case study (one page, double space, 12 pt font) and a reflection (one page, double space, 12 pt font). Include a third page with the name of the case study and where you found the case study (page in book or website link). Abstracts should be submitted by 10:00 p.m. on Sunday.

Field Trip
There is a required field trip to a LEED Certified building in Jackson. Date/time is determined at the beginning of the semester. The architect and/or interior designer will give a tour of the facility. A written summary of the field trip is required.

Course Evaluation
Complete a course evaluation during the last week. Course evaluation should be submitted by 10:00 p.m. on Sunday.

IX. GRADE EVALUATION

Category Reviews -	10%
Learning Activities -	10%
Practice Questions -	5%
Weekly Forums -	15%
Quizzes –	25%
Abstracts -	15%
Field Trip Attendance -	5%
Field Trip Summary -	10%
Course Evaluation -	5%
Total -	100%

A= 93-100
B= 85-92
C= 76-84
D= 65-75
F= 0-64

X. REFERENCES

Stang, A. & Hawthorne, C. (2005). *The Green House; New Directions in Sustainable Architecture*. NY: Princeton Architectural Press.

Kopec, D. (2009). *Health Sustainability and the Built Environment*. NY: Fairchild Books

McDonough, W. & Braungart, M. (2002). *Cradle to Cradle*. NY: North Point Press.

Foster, K., Stelmack, A. & Hindman, D. (2007). *Sustainable Residential Interiors*. NJ: John Wiley and Sons, Inc.

Marshall-Baker, A. & Tucker, L. (2012). *Cradle to Cradle Home Design*. NY: Fairchild Books.

Tucker, L. (2010) *Sustainable Building Systems and Construction for Designers*. NY; Fairchild Books.

Harmon, S. & Kennon, K. (2011). *The Codes Guidebook for Interiors*. NJ: John Wiley and Sons, Inc.

Piotrowski, C. & Rogers, E. (2007). *Designing Commercial Interiors*. NJ: John Wiley and Sons, Inc.

Ballast, D. (2010). *Interior Design Reference Manual*. CA: PPI.

Bergman, D. (2012). Sustainable Design: A Critical Guide. NY: Princeton Architectural Press.