

Department of Art Syllabus

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. EVALUATION

See Department of Art Syllabus Addendum for Grading Scale and Evaluation

IX. 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.