

INTDS 290 Sustainable Design Practices

COURSE LEARNING OUTCOMES (CLOs)

1. Identify and define the criteria for Leadership in Energy and Environmental Design (LEED) certification, and the LEED project rating system.
2. Recognize how sustainably constructed projects/ buildings benefit: environment, economy, health and community.
3. Apply basic LEED design principles to design project work.
4. Evaluate LEED design practices/ specifications and have the ability to communicate with other design professionals your design intent pertaining to LEED specifications and practices.
5. Support the practices of sustainable design by educating others about LEED best practices and specifications through oral, written, and graphic modes of communication.

Course Outline:

1. Introduction to Sustainable Interior Design and LEED AP
 - A. Understanding the Credentialing Process
 - a. The Tiers of the Credentialing Process
 - i. LEED Green Associate
 - ii. LEED Accredited Professional with Specialty
 - iii. LEED Fellow
 - b. The Application Process
 - c. Apply, Register, Schedule
 - d. Why Earn LEED Credentials
2. Sustainability and LEED Basics Review
 - A. The Benefits of Green Buildings
 - B. The Design and Construction Process
 - C. Do Green Buildings Cost More?
 - D. USGBC and GBCI
3. The LEED for Commercial Interiors Rating System
 - A. LEED for Commercial Interiors (LEED CI)
 - B. The Categories of LEED
 - C. Prerequisites and Credits
 - D. The LEED Certification Process
4. The Strategies and Technologies of LEED CI
 - A. Sustainable Sites
 - a. Site Selection
 - b. Transportation
 - c. SS Credit Worksheets
5. Water Efficiency
 - A. Indoor Water Use
 - B. WE Study Worksheets
6. Energy and Atmosphere

- A. Energy and Efficiency
- B. Tracking Energy Consumption
- C. Managing Refrigerants
- D. Renewable Energy
- E. EA Study Worksheets

7. Materials and Resources

- A. Salvaged Materials and Material Reuse
- B. Material Selection
- C. Waste Management
- D. MR Study Worksheets

8. Indoor Environmental Quality

- A. Indoor Air Quality
- B. Thermal Comfort
- C. Lighting
- D. EQ Study Worksheets

9. Innovation in Design and Regional Priority

- A. Innovation in Design
- B. Regional Priority
- C. ID Study Worksheets

10. Study Tips and Review

- A. Preparing for the LEED AP ID+C Exam
- B. The Testing Center Environment
- C. Exam Structure
- D. Course Review