

## Building a Sustainable Future

Lecturer	Dr. Raghad Kamel
Institution	Seneca Polytechnic
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Teaching time	Morning

**Course Description:** The course focus will be on Green Building (Leadership in Energy and Environmental Design) LEED certification principles. An appreciation will be gained of building design / operations and environmental problems, how they can be addressed through a broad-based understanding of sustainability; how the design and management of the built environment is critical to achieving a sustainable future.

**Materials/Text:**

Lecture notes  
Open educational resources

**Requirements:** N/A

**Schedule:**

Day #	Lecture topic	Assignment / Test
1	Introduction to the course Introduction to Green Fundamentals	
2	Sustainability and the Building industry	Assignment #1
3	Sustainable Design and Green Building	Research paper
4	Evaluating Costs Implications of Green Buildings	
5	Site Development Considerations	
6	Managing Site Water Run Off	Test 1
7	Improving projects water use efficiency	Assignment #2
8	Improving Buildings Energy Efficiency	
9	Renewable Energy Sources & onsite power generation-part 1	Test 2
10	Class activity	
11	Renewable Energy Sources & onsite power generation-part 2	
12	Improving Building's Material Use	Test 3
13	Improving a buildings Indoor Air Quality (IAQ)	
14	Review for final exam	
15	Final exam	

**Evaluation:**

Tests (3@10% each) = 30%  
 Research Paper = 15%  
 Class Participation = 15%  
 Class Assignments = 10%  
 Final Exam = 30%  
 Total: 100%