



## LILIE, LLC Course Information

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**Title of Course (45 hours):** The Green Classroom

### **Course Description:**

The Green Classroom is a course that will focus on current environmental concerns and what schools may do to help contribute to the solutions to save the planet. Teachers will be instructed in the scientific facts surrounding global warming and will be exposed to the existing programs and cross-curricula units that can be incorporated into content and instruct

### **Overall Course Objective and Expectation(s):**

Teachers will gain a broader knowledge of environmental conservation and apply these to both their classroom routines as well as to their curriculum. Participants are expected to contribute actively to class discussions and provide examples of ways they can incorporate the topics and activities into meaningful lessons in their classes.

### **Course Instructional Materials:**

All courses maintain a fully developed and dynamic webpage that houses all resources, reference material and various other required informational texts, videos and alike that is both active and relevant to course objectives and content. Course web pages are routinely updated to reflect most current research and available readings therefore instructional materials used to teach course objectives are subject to change.

### **Instructor Consultation and Interaction:**

Real time consultation and instruction is provided through the LILIE, LLC discussion boards for each course/classroom on a daily basis.

### **Suggested Readings (subject to change):**

- Silent Spring by Rachel Carson; The Change in the Weather: People, Weather, and the Science of Climate by William K. Stevens;
- Currents of Change: El Niño's Impact on Climate and Society by Michael H. Glantz;
- The Changing Atmosphere: A Global Challenge by John Firo

### **Proof of Course Completion:**

LILIE, LLC is committed to assuring that enrollees fully participate in and receive the educational benefits contemplated by the course. Enrollees must demonstrate participation by making detailed postings designed to foster dialogue among colleagues and instructors. These enrollee postings must be made four times each week in separate sessions. Enrollees will be required to submit a detailed log documenting at least 45 hours of course work, including discussion board posts, and will be required to apply information and strategies acquired from the course content to weekly classroom instruction. Attempts to falsify logs or discussion board entries will result in denial of credit and a report to the enrollee's employer.



## Scope & Sequence/Weekly Topics and Objectives

### *Week I*

#### Topic(s):

- An overview of current events and topics encountered in the classroom regarding our environment.

#### Objectives:

- Explain the effects of global warming, the sources of greenhouse gases, and the history of climate change on Earth.
- Correlate climate change and human activities

#### Impact on Classroom Instruction:

- Teachers will be able to explain the causative agents of climate change and differentiate between El Nino, La Nina, seasonal weather patterns, and global climate change

#### Learner Outcomes:

Participants will possess a greater knowledge of climate change and the underlying causes and effects as a function of the activity of humans.

#### Assessment of Understanding and Learning/ Weekly Assignments (*including but not limited to posting requirements set forth by LILIE, LLC*):

- Participants will elaborate, explain, and illustrate their understanding of the connections and interrelationships of humans and their environment.  
Participants will propose methods they can infuse into their classrooms to model positive human impact on the environment.



## *Week II*

### Topic(s):

Grade level specific lesson plans and activities that address climate change and conservation

### Objectives:

- Assess the sample lessons and activities presented in this class.
- Modify lessons to best fit the needs of the teachers' particular class/grade level.
- Implement activities/lessons in the classroom

### Impact on Classroom Instruction:

Participants will design and amend lessons and activities suitable for use with specific grade levels. Participants will select activities/lessons that are authentic and provide students with cross-curricular strategies

### Learner Outcomes:

Participants will have the opportunity to try their modified/amended lessons in their classrooms and rate the response of students.

Assessment of Understanding and Learning/ Weekly Assignments (*including but not limited to posting requirements set forth by LILIE, LLC*):

- Students' response to lessons that were introduced in the classroom  
Participants' redesign of lessons and activities  
Participants review of their peers' lessons and activities



### Week III

#### Topic(s):

- Cross-curricular strategies for the implementation of "green" classroom practices and lessons.

#### Objectives:

- Investigate print and other media resources for interdisciplinary activities and lesson plans  
Analyze and determine the effectiveness and correlation of the activity/lesson

#### Impact on Classroom Instruction:

- Participants will have an interdisciplinary unit that addresses climate change and conservation from several subject areas.
- Effective lessons will be developed for later implementation and assessment

#### Learner Outcomes:

- Participants will possess a multitude of resources for interdisciplinary lesson development. Participants will be skillful in relating various components of their content area to conservation and the human impact on the environment.

#### Assessment of Understanding and Learning/ Weekly Assignments *(including but not limited to posting requirements set forth by LILIE, LLC):*

- Assessment of lesson developed by participant
- Peer review of lesson plans and activities
- Incorporation of reading topics and background information into lesson plans



#### Week IV

#### Topic(s):

- Extended activities and project-based lessons and activities

#### Objectives:

- Identify specific topics/units in participants' content areas that can be addressed using themes of conservation, recycling, climate, and climate change.  
Construct project-based activities that address the **specific** topics/units.

#### Impact on Classroom Instruction:

Participants will utilize the project based activities to teach students in the context of conservation, recycling, climate, and climate change

#### Learner Outcomes:

- Participants will be skillful in developing and implementing activities that connect to their content area.
- Participants will assess the effectiveness of their project-based activities

#### Assessment of Understanding and Learning/ Weekly Assignments *(including but not limited to posting requirements set forth by LILIE, LLC):*

- Assessment of participant-designed activities
- Assessment of effectiveness of lesson/activity
- Effective and meaningful research of resources