



SLCA SYLLABUS 2017-18 ENVIRONMENTAL SCIENCE/ GREENHOUSE MANAGEMENT

Mission Statement: SouthLake Christian Academy exists for the sake of God's glory and mission; proclaiming the gospel and discipling the whole person in all aspects of God's reality.

Course Description: Environmental Science is a year-long course designed to show thematic connections between a variety of science disciplines including biology, chemistry, and physics. It gives students a coherent and realistic picture of the applications of a variety of scientific concepts as they manifest in our environment. During this first semester of environmental science, students will focus on human population growth, natural resources, and ecosystem dynamics. The aim of this course to increase student's knowledge of the environmental challenges of today, while continuing to cultivate scientific critical thinking skills. In addition, students will learn the basics of greenhouse operation by working in an on-campus greenhouse. Lessons covered will include but not be limited to general greenhouse upkeep, organization, and various horticulture projects.

Course Objectives: Students will:

- Use science process skills in laboratory or field investigations, including observation, classification, communication, metric measurement, prediction, inference and, collecting and analyzing data
- Use traditional reference materials to explore background and historical information regarding a scientific concept
- Learn and use, on a regular basis, standard safety practices for laboratory or field investigations
- Identify the significance of accurate, precise, and subjective/objective measurements, use of reliable tools, safety measure, and career training in environmental monitoring
- Investigate the flow of energy and cycling of matter within an ecosystem and relate these phenomena to human society.
- Demonstrate an understanding that the Earth is one interconnected system.
- Describe stability and change in ecosystems.
- Understand and describe availability, allocation and conservation of energy and other resources
- Recognize that human beings are part of the global ecosystem and will evaluate the effects of human activities and technology on ecosystems

Required Text: *Environmental Science*, Holt McDougal, Heithaus, Arms (supplied by SLCA)

Evaluation: This course uses a variety of classroom methods, including lectures, class discussions, group work, individual work, labs, field studies, student written and oral projects, and active student participation. Students are expected to participate in, and complete all aspects of required work to the best of their ability. Student achievement will be evaluated in a holistic manner, taking into account all aspects performance. Tests and quizzes will be given regularly throughout the semester. There is no semester exam for this course.

- **Homework** and class work will make up 10% of the overall grade. Homework will be assigned and checked for completion. All students begin the semester with a 100% homework grade. For each assignment not completed, 3 points will be subtracted. For example, if three homework assignments are not completed, then the overall homework grade would be 91%. No credit will be given for late assignments.
- **Quizzes** will make up 20% of the grade.
- **Tests** will make up 80% of the grade. Each semester will consist of at least six tests.

- **Test Make-up Policy:** If a student comes in to school late and as a result has missed a test, the student will immediately report to the office to make-up that test.

Students have **ONE** day for each day absent (excused) to makeup all tests and quizzes. If the test/quiz is not made up in this period, **10 pts will be deducted** from the final test/quiz grade **for each day past the makeup day**. Students should meet with their teacher(s) ASAP to request alternate arrangements if they do not have a study hall or have multiple assessments to complete.

All tests/quizzes are made up during the assigned test makeup period or other study hall. Students may NOT miss a scheduled class to make up a test. If students make up a test or quiz during a study hall other than the assigned test makeup period, they must go with a pass from their study hall teacher to the office to take it.

No extra credit will be offered per school policy. However, students will be given a bonus question on each test. Bonus points cannot be transferred to past or future tests.

Make-up work

- When students return from an absence, it is **THEIR RESPONSIBILITY** to find out what was missed. General rule: Ask your peers FIRST for notes or missed work, then, if they don't know, ask the teacher.
- If students have questions about make up work, they need to wait until the **end** of class to ask these questions.

Classroom Expectations:

1. Follow all rules and procedures as listed in the SouthLake Christian handbook.
2. Respect your teacher and classmates. No talking is permitted while the teacher or another student is talking.
3. Be in the classroom when the bell rings. Tardies will be recorded by the main office.
4. No food, drink, or gum in the classroom with the exception of water in a clear, squirt bottle.
5. Be prepared for class with textbook, writing utensils, and paper/notebook.

Supplies required:

- 3-ring binder (can be shared with another class...just stay organized).
- Writing utensil (pen/pencil) and paper
- Technology and/or other miscellaneous items on an "as needed" basis.