

RINCON HIGH SCHOOL ENVIRONMENTAL SCIENCE COURSE SYLLABUS 2019-2020

Course Title: **Environmental Science**

Instructor: **Barbara Hurley**

Instructor's Email Address: **Barbara.Hurley@tusd1.org**

Instructor's Classroom and Phone Number: **Room 107 520-232-5629**

Environmental Science Course Description This class is part of the University of Arizona Community and School Garden SEEC (Supporting Environmental Education and Communities) Program. Students will participate in citizen science research programs involving the Biosphere 2 agrivoltaics school garden and Natures Notebook phenology plant data collection. Students will develop their own research question and methods, conduct data collection, and analyze results for citizen science research projects and other experiments. Student findings are compiled into poster presentations and an art gallery exhibit for public presentations.

Students will study Sonoran Desert ecology and biodiversity. Issues facing humans will be explored including: population growth, water resources, energy production, and food production. Human impact on the environment will be stressed through out the course. **Emphasis is placed on observation skills and participation.**

Required Materials: Students need to bring these items to class every day

Notebook paper

A folder or three-ring binder to hold all Environmental Science handouts and work

A pen or a pencil and highlighters

After completing this class a student will be able to:

- Use the scientific process to answer questions
- Research the history and nature of science and its impact on society
- Make connections of science topics to real life
- Describe the relationship between humans and the environment
- Examine the effects of human actions in relation to other living things
- Read and create graphs that communicate data
- Describe how human curiosity and needs influenced the study of environmental science

Quarter	Unit Topic	Standards
First	Introduction Planting of garden fall crops Plant characteristic Sonoran desert ecology Phenology	Arizona State Science Standards Strand 1: Inquiry Process: Concept 1: Observation, questions, and hypothesis. Concept 2: Scientific testing. Concept 3: Analysis, conclusions, and refinements. Concept 4: Communicate results of investigations.
Second	Cycles in nature Human population Collecting data on garden Research project topics Harvesting garden	Strand 2: History and Nature of Science: Concept 1 History of science and human endeavor. Concept 2: Nature of science knowledge. Strand 3: Science in Personal and Social Perspectives: Concept 1: Changes in the environment. Concept 2: Science and technology in society. Concept 3: Human population characteristics
Third	Oceans issues Planting of garden spring crops Soil types and effects Data collection Sustainability	Strand 4: Life Science: Concept 3: Interdependence of organisms. Concept 4: Biological evolution. Concept 5: Matter, energy, and organization in living systems including human systems.

Fourth	Climate vs weather Climate change Science art project Research project results and presentation Harvesting garden	Strand 5: Physical Sciences: Concept 5: Interaction of energy and matter Strand 6: Earth and Space Science: Concept 1: Geothermal cycles; Concept 2: Energy of earth systems internal and external
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Grading Policy Student's grade is a combination of participation, class assignments, laboratories, activities, note taking, quizzes, library searches, and computer work, experiments, research projects, field trips, guest speakers, garden maintenance, and nature exploration. There are a lot of assignments and activities so it is important to keep current on work. **Participation is part of your grade.**

90% and up A 80% and up B 70% and up C 60% and up D

Less than 60 F – OH NO!

Heading on Papers All assignments must have a full heading including students first and last name, date, class title, class period and assignment title.

Nimbus Hurley	8/6/2019	Environmental Science per 1
Procedure Quiz		

Make-up work due to absence – It is the student's responsibility to request and turn in missed work. There are many laboratory and activity assignments that must be completed during class; therefore, students may need to complete an alternate assignment if they miss class. Work missed during an excused absence can be requested through the office and picked up the next day. Students have one day for every excused day that they were absent to complete and turn in make-up work. **Please talk to me if you are having problems completing work due to unforeseen circumstances.**

Late/missing work Students need to take the responsibility to complete work and turn in assignments on time. **Please talk with me if you do not understand an assignment or need to schedule additional time.** I am available during class, conference period, before and after school, by e-mail, and by appointment. Students who fail assignments/exams need to make arrangements with me to redo the work.

Grade Status on Synergy Students and parents need to monitor class progress on Synergy. It is expected that both students and parents or guardians will be checking grades on synergy at least once a week. I update grades weekly. Please talk to me if there are questions about work or grades. Get booboo's fixed.

Classroom Expectations/Rules:

- Respect – yourself, others, and property (THINK FIRST and make good choices)
- Participate in class even if it is not a writing assignment.
- Be present and on time – follow school procedures for tardies
- Be prepared – bring paper, pen or pencil, and other material as assigned.
- Handle property and materials with care and keep work area clean

- Ask questions if you need help or do not understand what to do
- Keep up with your work by checking your grade on Synergy often

Classroom procedures:

- Enter classroom quietly and ready to learn
- Be in your assigned seat
- Start on the assignment posted on smart board or white board
- Follow directions the first time they are given
- Follow all school and district rules as posted in the handbook
- The classroom must be clean before class is excused (remember that the bell does not dismiss you at the end of class period – I DO!)

Positive consequences of following the expectations and procedures

Verbal praise

Positive notes home

Self-respect and the respect of others

Positive learning environment that leads to good grades – yeah!

Periodic class rewards

Negative consequences of not following the expectations/procedures

(may be adjusted according to severity)

First misconduct – Student is verbally addressed

Second misconduct – Student and teacher problem solve situation (verbally and/or in writing)

Third misconduct – Parents will be including in problem solving

Fourth misconduct – Referral to office

Return lower portion after it is filled in and signed

*****cut here or fold and rip here*****

Fill in and return signed slip. Keep the rest of the syllabus in your class work folder.

Student name (first and last-- write neatly!!!!)	Date	Class period
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I have read and fully understand the information in Ms. Hurley's syllabus.

I have discussed the syllabus with my Parent/Guardian.

I agree that I can abide by (follow) the above stated expectations and procedures in Ms. Hurley's class.

Parent/Guardian's signature
Parent/Guardian's phone
Parent/Guardian's e-mail