Laura Hansen Plant Science 2

E-mail: Laura\_Hansen@sangerusd.net

**Plant Science 2: Soils - Course Information**

**Course Description**

An introduction to the basic principles of soil science, including the physical, chemical, and biological characteristics of soils. Emphasis during lectures and laboratories is placed on developing practical and effective soil management solutions that preserve soil quality in an irrigated environment.

**Units and Hours**

3 units, 2nd Period

**Textbook**

Brady, N.C and Weil, R.R. 2010. Elements of the Nature and Properties of Soils. 3rd Edition. Prentice Hall.

**Assignments and Grading**

Three major tests will be given that correlate to the assigned readings and course lecture notes. Quizzes will be given daily on the discussed subject matter as well as assignments

**Point Distribution**

Grading Scale

30%Tests/Quizzes

35% Lab/Projects

35% Assignments

Total Points 90% = A 80% = B 70% = C 60% = D Less = F

**Assignments:**

All assignments are due at the beginning of class on the date due. Late submission of assignments will be assessed a penalty of 50%. No exceptions are made.

**Academic Dishonesty:**

Plagiarism and cheating are serious offenses and may be punished by failure on exam, paper or project; failure in course; and or expulsion from the University. For more information refer to the "Academic Dishonesty" policy in the College Catalog.

**Need for Assistance:**

If you have any condition, such as a physical or learning disability, which will make it difficult for you to carry out the work as I have outlined it, or which will require academic accommodations, please notify me as soon as possible.

**Posting of Grades:**

Final grades will not be posted. If you wish to know your final grade ask.

**Attendance**

Attendance of lectures and labs is required and roll will be taken at each meeting. A "tardy" is considered an absence unless the student contacts and explains the incident. Students must make prior arrangements with the instructor to be excused from lectures and labs, make-up of missed tests and labs are permitted only with excused absences.

**Office Hours – Email Me**

**Lecture Schedule**

**Week Topic**

1. Introduction Soils Around Us Chapter 1
2. Formation of Soils from Parent Material Chapter 2
3. Soil Architecture and Physical Properties Chapter 4
4. Soil Water: Characteristics and Behavior Chapter 5
5. Soil and the Hydrologic Cycle Chapter 6
6. Soil Aeration and Temperature Chapter 7
7. Review & Midterm
8. The Colloidal Fraction: Seat of Soil Activity Chapter 8
9. Soil Acidity, Alkalinity, Aridity and Salinity Chapter 9
10. Organisms and Ecology of the Soil Chapter 10
11. Soil Organic Matter Chapter 11
12. Soil Classification Chapter 3
13. Review & Midterm
14. Nutrient Cycles and Soil Fertility Chapter 12
15. Practical Nutrient Management Chapter 13
16. Soil Erosion and Its Control Chapter 14
17. Soil and Chemical Pollution / Review Chapter 15
18. Final Exam