

SCIT 1305
Agricultural Chemistry

Western Texas College

- I. Basic Course Information:
 - A. Course Description-Introduction to chemical components in agriculture applications. Topics include metric system, nomenclature, solutions, fertilizers, and pH in relation to the areas of soils and agriculture chemicals.
 - B. Any required or recommended prerequisites. Including permission of division chair for enrollment: No prerequisites.
 - C. Credit hours: 3 hour credit
 - D. Breadth and major requirements for course fulfills: Course fulfills TLM degree/certificate requirements.
- II. Student learning outcomes
 - A. Student Learning Outcomes (SLO): A student learning outcome is what an instructor expects a student to know after completing the course. An SLO is anything that a student knows, does, thinks or feels as a result of an educational experience. The following are SLO expectancies of this course: Perform agricultural chemical analyses; use common nomenclature; differentiate agricultural chemicals; and practice agricultural chemical safety. *Students may vary in their competency levels. You can expect to succeed only if you honor all course policies, attend class regularly, complete all assigned work on time and meet all other course expectations.*
- III. Course Requirements, methods of assessment, assessment criteria, grading standards
 - A. Grading system: Final grades will be assigned based on a percentage system of assignments. Students will earn an A, B, C, D, F, I, W, Q. Final grades are as follows:

A=90% and above
B=80-89%
C=70-79%
D=60-69%
F=59% and below
 - B. Graded course requirements: Exams, Labs, Quizzes, Attendance with daily assignments
 - C. Study aids: NA
 - D. Grade percentages:

Exams – 25%
Lab (Attendance 20%, Participation 5%) – 25%

Attendance and daily assignments – 25%
Final Exam – 25%

- F. Course requirements aside from those computed in the grade: NA
- G. Extra credit options: NA
- H. Campus support services: NA

IV. Information on the readings:

- F. Required books: (The Mathematics of Turfgrass Maintenance) also (Western Fertilizer Handbook)
- G. “Class Pack”: NA
- H. Required reading: NA
- I. Readings on reserve: Books on reserve will be announced during the course of the semester
- J. Commercial lecture notes: NA

V. Other Required Course Materials

- . Supplies and equipment: NA

VI. Course Organization and Schedule

- . Weekly Course Schedule

Week 1	Introduction
Week 2	Chapters 1 and 2, Soils, Water and Plant Growth
Week 3	Chapters 1 and 2, Soils, Water and Plant Growth
Week 4	Principles of Plant Growth
Week 5	Essential Plant Nutrients
Week 6	Tissue testing
Week 7	Correcting Soil Problems with Amendments
Week 8	Chemicals in Agriculture
Week 9	Chemical Safety
Week 10	Chemical Modes of Action
Week 11	Chemical Modes of Action Continued
Week 12	Chemical Families
Week 13	Chemical Families
Week 14	Reading Chemical Labels
Week 15	Review for Final

- A. Disclaimer: The above schedule, policies, procedures and assignments in this course are subject to change.

VII. Other policies, procedures and important dates:

- . SAFETY: A number of safety measures are in place for your continued protection. In the event of inclement weather, shelters have been

designated at several locations on campus. Your student handbook will have a map of these locations and you should familiarize yourself with each. The shelters will be marked at the entrance. Western Texas College is part of the citywide call list, which is activated by the local law enforcement personnel. Warnings will be given throughout the campus once the call is received.

- A. EMERGENCY: All offices serve as emergency communications points. Please notify the nearest WTC staff member should you become aware of the need for assistance of any type. Campus phone: Dial 911.
- B. BAD WEATHER POLICY: In the event of classes being dismissed for inclement weather, holiday, national disaster, or other unavoidable circumstance, the instructor will be responsible for notifying the students as to what the make-up requirements will be. Sufficient work will be documented to offset the number of hours missed. This notification of required make-up work will be given to students within one week upon resuming classes.
- C. ADA STATEMENT: Western Texas College does not discriminate on the basis of disability in the admission or access to, or treatment or employment in, its programs or activities. The college counselors have been designated to coordinate compliance with the nondiscrimination requirements contained in section 35.107 of the Department of Justice regulations. Information concerning the provisions of the Americans with Disabilities Act, and the rights provided there under, are available from the college counselors.
- D. SPECIAL ASSISTANCE: If, as a result of a disability, a student needs special assistance to participate in a class, the counselor is to be notified immediately so that the prescribed process can be initiated.
- E. AFFIRMATIVE ACTION: Western Texas College is an equal opportunity institution and is in compliance with the Americans with Disabilities Act.