

Reedley College  
Holcomb

LAND Department  
Plant Science 20

**Plant Science 20: Agriculture Technology  
Course Information**

**Course Description**

Introduction to applied agricultural sciences. Lecture and laboratory topics to include soil fertility and salinity analysis, plant tissue culture, irrigation management technology, and pest management technologies.

**Units and Hours**

3 units; 2 hours lecture - T 2:00 p.m. to 3:50 p.m. LSH1  
3 hours lab. - T 4:00 p.m. to 5:50 p.m. LSH1 or  
- 1 hour by arrangement

**Textbook**

No recommended text.

**Assignments and Grading**

		Point Distribution		
Lecture:	1 Midterm			200
	Final Exam			200
Laboratory:				400
Total Points				<b>800</b>
90% = A	80% = B	70% = C	60% = D	Less = F

<b><u>Last Day To:</u></b>	Drop Class with Refund:	January 21, 2000
	Drop w/o Transcript Record:	January 28, 2000
	Change CR/NR:	February 11, 2000
	Drop w/o a Letter Grade Assigned	March 10, 2000

**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 - LSH 2**

*Final exam date*

**Lecture/Laboratory Schedule**

<u>Week</u>	<u>Topic</u>
1	Introduction
2	Soil Sampling, Drying, and Preparation
3	Soil Nitrate Analysis
4	Soil Phosphorus Analysis
5	Plant Tissue Culture 1
6	Plant Tissue Culture 2 Mid Term Review
7	Mid Term Examination Plant Tissue Sampling, Drying, and Preparation
8	Plant Nitrate Analysis
9	Plant Phosphorus Analysis
10	Fermentation
11	Soil Nematode Sample and Analysis
12	Water Quality pH, EC <sub>w</sub> , Boron, Nitrate
13	Field Trip - Kearney Field Station
14	Field Trip - Tulare Farm Show
15	Fruit Sugar Measurement
16	Plant Based Irrigation Scheduling Technology Infrared Thermometer Leaf Pressure Bomb
17	ET <sub>o</sub> Water Budgeting Final Review