

OFFICE HOURS: Monday - 11:00 a.m.  
 Tuesday & Thursday - 10:00 a.m.

TELEPHONE: 638-3641, Ext. 3268

<b>COURSE INFORMATION</b>
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**TITLE** LAND 10 - Shop Skills

**DESCRIPTION** The use of hand and power tools related to plumbing, woodworking, electrical wiring, concrete and metal working. Emphasis will be placed on practical application and theory.

**UNITS & HOURS** 2 Units 1 hour lecture & 3 hours lab per week

**TEXTBOOK** Agricultural Mechanics: Fundamentals & Application, 2<sup>nd</sup> Edition  
 Elmer L. Cooper (Delmar Publishers)

**MATERIALS** Approved eye protection/safety glasses  
 Coveralls or work clothes  
 Approved footwear  
 Tape measure  
 Drafting paper (Vellum)

**ASSIGNMENTS/ GRADING** Five skill areas will be covered that correlate to the assigned textbook readings, course lecture notes, and lab projects. Each lab project must be accompanied with a project drawing and materials/tools list.

<u>Grade Scale</u>	<u>Point Distribution</u>	<u>Points</u>
A 90%	Safety Test	50
B 80%	5 Test @ 100 pts./each	500
C 70%	Final Exam	100
D 60%	5 Homework @ 50 pts./each	250
F <60%	Lab Participation 5 @ 20 pts./each	100
	Lab Projects 5 @ 100 pts./each	<u>500</u>
Total =		1500

**FINAL EXAM** Wednesday, May 17, 3:30 p.m.

**DROP DATE** At the end of the 9<sup>th</sup> week of instruction, no withdrawals (drops) are permitted, and the student must receive a letter grade for the class. The last day to drop a course is Friday, March 10, 2000.

## ATTENDANCE

Attendance is required since most of the learning occurs in a lecture/lab situation.

Students are responsible for obtaining notes/information missed due to absence from the instructor.

Please notify the instructor if you know in advance that you will be absent from class.

College policy dictates that an instructor should drop a student with two consecutive weeks of unexcused absences.

## CHEATING & PLAGIARISM

In keeping with the philosophy of the college that students are to receive the best education available, and in compliance with Board Policy 5410, each student is expected to exert an entirely honest effort toward attaining an education. Violations of this policy will result in disqualification for the course.

## COURSE OUTLINE

1. Shop Orientation & Procedures
  - a. Personal Safety
  - b. Reducing Hazards
  - c. Shop Clean-up & Organization
2. Hand Woodworking
  - a. Hand Tools, Fasteners & Hardware
  - b. Layout Tools
  - c. Selecting, Cutting & Shaping Wood
  - d. Fastening Wood
  - e. Finishing wood
3. Power Tools
  - a. Portable Power Tools for Wood
  - b. Metal Working Tools
4. Project Planning
  - a. Sketching & Drawing Projects
  - b. Figuring a Bill of Materials
5. Tool Fitting, Repairing & Reconditioning
6. Electrical Principles & Wiring Materials
7. Plumbing
  - a. Identification of Tools & Pipe
  - b. Assembling Pipe
  - c. Maintain Water System
8. Concrete Work
  - a. Identification of Tools
  - b. Preparation of Forms
  - c. Pour & Finish Concrete
  - d. Calculation of Concrete for a Job