

REEDLEY COLLEGE
REEDLEY, CALIFORNIA

INDUSTRIAL TECHNOLOGY DEPARTMENT
MANUFACTURING TECHNOLOGY CERTIFICATE PROGRAM

MFGT 36 Blueprint Reading

INSTRUCTOR: Mr. McCain

DESCRIPTION: Blueprint Reading - 2 units, 5 hours weekly,
9 weeks

REQUIRED BACKGROUND: None

REQUIRED MATERIALS:

1. text book: BASIC BLUEPRINT READING AND SKETCHING
sixth edition, DELMAR, 1993.
2. ring binder: standard 3 ring
3. other materials: (2) Scantrons, (5) Quizstrips,
6" ruler, a #2 pencil (or equiv.)
Compass, and a soft eraser.

COURSE OBJECTIVES:

1. Upon completion of this course, the student will be able to:
 - a. determine the size, shape, type of material and finish requirements for standard manufacturing drawings.
 - b. to make sketches and working drawings with enough detail and dimensioning to enable him to manufacture the part from the drawings.

METHODOLOGY:

Students will be expected to read the material in the chapters, complete and turn assigned problems in to the instructor and be prepared to discuss the assigned chapters. Lectures will serve the purpose of clarifying and expanding the reading material.

ATTENDANCE:

1. You need to attend class regularly and participate in your class. Class participation will be 96 points of your total grade.
2. Dropping from this class is YOUR RESPONSIBILITY. Failure to drop could result in a grade being issued. Remember to turn in a drop slip if you stop attending class. The drop deadline is Wednesday, Sept 15, 1999.
3. Two tardies are equal to one absence. Two (2) absences and you will be dropped from the class.

EXAMINATIONS:

1. There will be two (2) examinations: (Fall 1999)

<u>EXAM</u>	<u>Date</u>	<u>Material covered</u>
1	Sept. 17	Units 1-20
2	Oct. 15	Units 27,28,31-34, 37-41

POINTS:

1. 2 EXAMS. at 200 points each	=	400 points
2. 5 QUIZES at 20 points each	=	100 "
3. Workbook Problems	=	1604 "
4. Class participation	=	96 "

TOTAL POSSIBLE = 2200 points

POINTS SCALE:

1980 - 2200	=	A
1760 - 1979	=	B
1540 - 1759	=	C
1210 - 1539	=	D
Below 1210	=	F

To determine your level of progress at anytime, divide your accumulated points by the total points possible up to that week. Look at the assignment sheet on page 4 to find the homework points listing. If you have trouble in determining your grade level please ask the instructor to help you.

COURSE OUTLINE
MFGT. 36

WEEK	SECTION	AGENDA
1	Lines	Lecture: Alphabet of Lines Hidden, Center, Extension, Projection Lines
2	Views	Lect. Arrangements- three, two, one and Auxiliary views
3	Dimensions and notes	Lect. Size and Location, Cylinders, Holes and Angles, Arcs, and Tolerance, Dimension, Threads, Notes
4	Welding Drawings	Lect. Symbols, Representations, Dimensions
5	CNC Drawings	Lect. Datums, Ordinates, Dimensioning
6	Sketching	Lect. Lines, Basic Forms, and Pictorial Drawings
7	Stretch outs	Lect. Parallel Development, Radial Development
8	Working Drawings	Lect. Machine Shop, CNC Operations

ASSIGNMENT SHEET

WEEK	SECTION	READING	WORKBOOK	PTS
1	LINES	Units 1-5 pg 1-17	BP-2,3,4A,4B,5	164
2	VIEWS	Units 6-10 pg 18-41	BP-6A,6B,7,8A,8B, 8C,9,10	298
3	DIMENSIONS AND NOTES	Units 11-15 pg 42-63	BP-11,12,13,14,15	264
4	DIMENSIONS AND NOTES	Units 16-20 pg 64-87	BP-16,17,18,19,20	330
5	WELDING AND CNC DRAWINGS	Units 27-28 pg 119-131	BP-27A,27B,28	195
6	SKETCHINGS	Units 31-34 pg 150-171	BP-31A,31B,32A,32B 32C, & 33	150
7	STRETCH OUTS	Units 37-41 Pg. 176-195	BP-37A,37B,38,39, 40, & 41	203
8	WORKING DRAWINGS - CNC operations and review			
9	FINAL TEST			

TOTAL POINTS = 1604