

**REEDLEY COLLEGE
REEDLEY, CALIFORNIA**

**INDUSTRIAL TECHNOLOGY DEPARTMENT
MANUFACTURING TECHNOLOGY CERTIFICATE PROGRAM**

MFGT 21 BLUEPRINT READING

INSTRUCTOR: Mr. Larry Nix

DESCRIPTION: Blueprint Reading - 2 units, 6 hours weekly, 8 weeks.

REQUIRED MATERIALS:

1. Textbook: BASIC BLUEPRINT READING AND SKETCHING
9th edition, DELMAR, 2011
2. Ring binder: standard 3 ring.
3. Calculator: battery or solar powered.
4. Other materials: Scantrons, Quizstrips, 6" ruler, a #2 pencil (or equiv.)
a 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 or her 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.

ELECTRONIC DEVICES:

1. Cellular phones MUST BE OFF!

ATTENDANCE:

1. You need to attend class regularly and participate in your class: Class participation will be will be 47 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 Friday, Sept. 14, 2012.
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 2012)

<u>EXAM</u>	<u>DATE</u>	<u>Material covered</u>
1.	Sept. 14	Units 1-19
2.	Oct. 12	Units 26-29, 31-33 & 37-41.

POINTS:

1. 2 Exams at 200 points each	=	400 points
2. 5 Quizzes at 20 points each	=	100 “
3. Workbook problems	=	1553 “
4. Class participation	=	47 “
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Total possible	=	2100 points

POINTS SCALE:

1890 – 2100 = A
1680 – 1889 = B
1470 – 1679 = C
1260 – 1469 = D
Below 1260 = 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 – 21

<u>WEEK</u>	<u>SECTION</u>	<u>AGENDA</u>
1	Lines	Lecture: Alphabet of Lines, Hidden, Center, Extension and Projection lines
2	Views	Lect: Arrangements – one, two, three and Auxiliary views.
3.	Dimensions and Notes	Lect: Size and Location, cylinders, holes and angles, arcs and tolerance, dimension, thread and notes.
4.	Welding Drawings	Lect: Symbols, representations and dimensions.
5.	CNC Drawings	Lect: Datums, ordinate and tabular dimensioning.
6.	Sketching	Lect: Lines, basic forms, and pictorial drawings.
7.	Stretchouts	Lect: Parallel and radial developments.
8.	Working drawings	Lect: Perspective sketches

ASSIGNMENT SHEET

WEEK	SECTION	READING	WORKBOOK	PTS
1	Lines	Units 1-4 Pg 1-21	Unit , 1 BP-2,3,4A & 4B	88
2	Views	Units 5-9 Pg 5-9	BP5 6A,6B,7 8A,8B,8C,9A &9B	249
3	Dimensions & Notes	Units-10-14 Pg 54-79	BP-10,11,12,13 & 14	132
4	Dimensions & Notes	Units 15-19 Pg 80-105	BP-15,16,17,18 & 19	196
5	Threading	Units 20-,22 Pg 106-123	BP20,21, &22	146
6	Sketchings	Units-31-34 &35 Pg179-223	BP31A,31b,34A.34B 35A,35B.& 35C	120
7	Scketch Outs	Units 36-39	BP36,37A37B	76
8	Working drawings & Final Test	Units 40 &41 Pg242-251	BP40A,40B &41	148