Mechanical Drawing I: Orthographic Drawing

John Rickman
Old Dominion University

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LESSON OUTLINE:

1. Object Views - Teaching Aid.
   a. Front view - width and length.
   b. Right side view - height and depth.
   c. Top view - width and depth.
2. Three principal dimensions.
   a. Width
   b. Height.
   c. Depth
3. Discussion of each view.

REVIEW QUESTIONS:

1. How many dimensions for each view?
2. Width and length?
3. Height and depth?
4. Width and depth?
5. What are the three principal dimensions?

AV EQUIPMENT:

___ OVERHEAD ___ T.V. ___ SLIDE PROJECTOR
X FILM PROJECTOR ___ VIR
X OTHER Wooden Objects and teaching aid - fold out square
X TITLE OF FILM ETC. Orthographic Drawing - Part I

INSTRUCTIONAL EQUIPMENT:

1. Teaching Aid
2. Wooden Objects - Square, rectangle, and triangle.

ASSIGNMENT:

1. Students work on drawing three views.

CRITIQUE OF LESSON:
INSTRUCTOR     John Rickman                  DATE TO BE GIVEN: 11-1-77

TITLE OF COURSE Mech. Drawing I - 1         LESSON NO. 2

TITLE OF LESSON Object Views - Hidden Lines

LESSON OUTLINE:
1. Hidden Lines.
   a. Hidden parts of an object.
   b. Use dash lines to show hidden parts.
2. Six views in an object - Teaching Aid.
   a. Getting views from box onto flat plane.
   b. Depth - same as side view and top view.
   c. Width - same as top, front, and bottom views.
   d. Height - same as rear, left-side, front, and right-side views.

REVIEW QUESTIONS:
1. How do we get the views from the box onto a flat plane?
2. Depth dimension is the same in?
3. Width dimension is same in ?
4. Height dimension is same in ?
5. What is a hidden line?

AV EQUIPMENT:

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INSTRUCTIONAL EQUIPMENT:
1. Teaching Aid
2. Ruled Paper

ASSIGNMENT:
1. Students sketch problems 1, 2, 4, 8, 10, 11, 12 - p. 93 fig. 6-26

CRITIQUE OF LESSON:
INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 11-2-77

TITLE OF COURSE: Mech. Drawing I - 1

TITLE OF LESSON: Three Views

LESSON OUTLINE:
1. Three views to describe shape of object.
2. Views - Teaching Aid.
   a. Front vs. Rear.
   b. Top vs. Bottom.
   c. Left vs. Right side.
3. Views called "Three Standard Views".
4. Two-view drawings - Film Strip.
   a. Machine parts

REVIEW QUESTIONS:
1. What are the three necessary views?
2. What views are the same?
3. What are these views called?
4. How many views necessary for machine parts?
5. Name some everyday objects we use every day that has three views?

AV EQUIPMENT:

OVERHEAD   T.V.   SLIDE PROJECTOR

FILM PROJECTOR   VTR

OTHER

TITLE OF FILM ETC. Orthographic Drawing - Part II

INSTRUCTIONAL EQUIPMENT:
1. Teaching Aid with fold out sides.

ASSIGNMENT:
Students sketch problems 4, 7, 10, 15, 18, 19, 17. Fig. 6-27 p. 99.

CRITIQUE OF LESSON:
INSTRUCTOR: John Ricketts  

DATE TO BE GIVEN: 11-3-77  


LESSON NO.  

TITLE OF LESSON: Object Views  

LESSON OUTLINE:  

Work Day  

REVIEW QUESTIONS:  

AV EQUIPMENT:  

____ OVERHEAD  

____ T.V.  

____ SLIDE PROJECTOR  

____ FILM PROJECTOR  

____ VIR  

____ OTHER  

____ TITLE OF FILM ETC.  

INSTRUCTIONAL EQUIPMENT:  

ASSIGNMENT:  

Students work on sketching object views.  

CRITIQUE OF LESSON:
PROJECTION: John Rickman

DATE TO BE GIVEN: 11-4-77


LESSON NO.: 5

TITLE OF LESSON: Object Views

LESSON OUTLINE:

Work Day

REVIEW QUESTIONS:

AV EQUIPMENT:

_____ OVERHEAD _____ T.V. _____ SLIDE PROJECTOR

_____ FILM PROJECTOR _____ VTR

_____ OTHER

_____ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

Students work on sketching object views.

CRITIQUE OF LESSON:
Quiz Papers
Ruled Paper

Students work on drawings after finishing quiz.
VISUALIZATION - COMPLETION PROBLEMS
INSTRUCTIONAL LESSON DESIGNATION PLAN

INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 11-9-77

TITLE OF COURSE: Mech. Drawing 1 - 1

LESSON NO.

TITLE OF LESSON: Inservice Meeting

LESSON OUTLINE:

REVIEW QUESTIONS:

AV EQUIPMENT:

___ OVERHEAD  ___ T.V.  ___ SLIDE PROJECTOR

___ FILM PROJECTOR  ___ VTR

___ OTHER

___ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

CRITIQUE OF LESSON:
INSTRUCTOR  John Rickman  DATE TO BE GIVEN: 11-2-77

TITLE OF COURSE  Mech. Drawing I - 1  LESSON NO.  7

TITLE OF LESSON  Drawing Two Views

LESSON OUTLINE:
I. Mechanical Drawing of Two Views,
   A. Spacing two views,
      1. Horizontal Spacing,
      2. Vertical Spacing,
   B. Draw light construction lines,
   C. Darken in final object lines.

REVIEW QUESTIONS:
1. What are the two ways of spacing the views?
2. First you start with what type of line?
3. Final lines should be?

AV EQUIPMENT:

   OVERHEAD   T.V.   SLIDE PROJECTOR
   FILM PROJECTOR   VTR
   OTHER
   TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:
1. Black Board with drawings.

ASSIGNMENT:

   Students work on new drawings.
   P. 118 Fig. 7-27 1-4

CRITIQUE OF LESSON:
Lesson Outline:

I. Mechanical Drawing of three views.

A. Spacing three views.
   1. Horizontal Spacing
   2. Vertical Spacing.

B. Light construction lines.

C. Darken in final object lines.

Review Questions:

1. What are the two ways of spacing the views?
2. First you start with what type of line?
3. Final lines should be?

AV Equipment:

OVERHEAD T.V. SLIDE PROJECTOR
FILM PROJECTOR VIR
OTHER

Title of Film Etc.

Instructional Equipment:

1. Black Board with drawings.

Assignment:

1. Students work on new drawings.

P. 118 Fig. 7-27 1-4

Critique of Lesson:
TITLE OF COURSE: Mech. Drawing I - 1  LEsson No. 9

TITLE OF LESSON: Transferring Depth Dimension

LESSON OUTLINE:

I. Transferring Depth Dimension.
   A. From top to right side view.
      1. 45 degrees mitre line.
   2. Dividers.
   3. Scale

REVIEW QUESTIONS:

1. Transfer depth dimension in what ways?
2. How are dividers used?
3. How is the scale used?

AV EQUIPMENT:

___ OVERHEAD ___ T.V. ___ SLIDE PROJECTOR
___ FILM PROJECTOR ___ VIR
___ OTHER __________________________
___ TITLE OF FILM ETC. __________________________

INSTRUCTIONAL EQUIPMENT:

1. Black Board and drawings.

ASSIGNMENT:

1. Students continue working on drawing.

CRITIQUE OF LESSON:
LESSON OUTLINE:
I. Spacing Three Views
   A. First determine spacing of three required views.
   B. Working space on tracing sheet.
      1. 10 1/2" wide x 7 1/8" high.
   C. Use Fig. 7 -11 P.110 as example.
   D. Use 1 1/3" spacing between views.
      1. Front and Top
   E. Use 1 1/4" spacing between views.
      1. Front and right side.

REVIEW QUESTIONS:
1. What is the working space on tracing paper?
2. How much spacing is used for front and top views?
3. How much spacing is used for front and right side views?

AV EQUIPMENT:

___ OVERHEAD  ____ T.V.  ____ SLIDE PROJECTOR
____ FILM PROJECTOR  ____ VTR
____ OTHER

___ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

1. Black Board

ASSIGNMENT:
Students work drawings 1-4 P. 119 Fig. 7-28

CRITIQUE OF LESSON:
INSTRUCTOR: John Rickman  
DATE TO BE GIVEN: 11-15-77

TITLE OF COURSE: Mech. Drawing I - 1  
LESSON NO.: 11

TITLE OF LESSON: Dimensioning Three Views to scale

LESSON OUTLINE:

Work Day.

REVIEW QUESTIONS:

AV EQUIPMENT:

___ OVERHEAD  
___ T.V.  
___ SLIDE PROJECTOR

___ FILM PROJECTOR  
___ VTR

___ OTHER

___ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

1. Students work on drawings.

CRITIQUE OF LESSON:
INSTRUCTOR  John Rickman  DATE TO BE GIVEN: 11-16-77
TITLE OF COURSE  Mech. Drawing 1 - 1  LESSON NO. 12
TITLE OF LESSON Dimensioning Three Views to Scale

LESSON OUTLINE:

Work Day

REVIEW QUESTIONS:

AV EQUIPMENT:

____ OVERHEAD  ____ T.V.  ____ SLIDE PROJECTOR
____ FILM PROJECTOR  ____ VTR
____ OTHER

____ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

Students work on drawings.

CRITIQUE OF LESSON:
INSTRUCTOR: John Rickson
DATE TO BE GIVEN: 11-17-72 11-18-72

TITLE OF COURSE: Mech. Drawing I - 1
LESSON NO.: 13 & 14

TITLE OF LESSON: Dimensioning Three Views to scale

LESSON OUTLINE:

Work Days

REVIEW QUESTIONS:

AV EQUIPMENT:

___ OVERHEAD ___ T.V. ___ SLIDE PROJECTOR

___ FILM PROJECTOR ___ VIR

___ OTHER

___ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

Students finish drawings

CRITIQUE OF LESSON:
INSTRUCTOR  John Rickman  DATE TO BE GIVEN: 11-21-77

TITLE OF COURSE  Mech. Drawing I - I  LESSON NO. 15, 16, & 17

TITLE OF LESSON  Dimensioning Three Views to Scale

LESSON OUTLINE:

Work Days

REVIEW QUESTIONS:

AV EQUIPMENT:

___ OVERHEAD  ___ T.V.  ___ SLIDE PROJECTOR

___ FILM PROJECTOR  ___ VIR

___ OTHER

___ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:  1. Extra Credit Problems, P. 191 & 100.
                2. Choice one problem on pages 123, 124, or 125.

CRITIQUE OF LESSON:
INSTRUCTOR: John Ricksen  DATE TO BE GIVEN: 11-18-77

TITLE OF COURSE: Mech. Drawing I - 1  LESSON NO. 18

TITLE OF LESSON: Dimensioning Three Views to Scale

LESSON OUTLINE:

1. Review for test and assign test problem.

REVIEW QUESTIONS:

AV EQUIPMENT:

____ OVERHEAD  ____ T.V.  ____ SLIDE PROJECTOR

____ FILM PROJECTOR  ____ VTR

____ OTHER  ___________________________________________

____ TITLE OF FILM ETC.  ___________________________________________

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

1. Test problem fig. 7-42 Dovetail Finger, P. 124

CRITIQUE OF LESSON:
INSTRUCTOR: John Ricksen

DATE TO BE GIVEN: 11-29-77

TITLE OF COURSE: Mach. Drawing I - 1

LESSON NO.: 12

TITLE OF LESSON: Test - Dovetail Finger

LESSON OUTLINE:

Test - Dovetail Finger
1. Dimension to scale
2. Show all dimensions.
3. Space drawing correctly.

REVIEW QUESTIONS:

AV EQUIPMENT:

___ OVERHEAD ___ T.V. ___ SLIDE PROJECTOR

___ FILM PROJECTOR ___ VIR

___ OTHER ____________________________________________

___ TITLE OF FILM, ETC. ________________________________

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

Students take test.

CRITIQUE OF LESSON:
TITLE OF COURSE: Mech. Drawing 1 - 1

TITLE OF LESSON: Dimensioning Three Views to Scale.

LESSON OUTLINE:

1. Hand back test and go over.
2. Work days.

REVIEW QUESTIONS:

AV EQUIPMENT:

- OVERHEAD
- T.V.
- SLIDE PROJECTOR
- FILM PROJECTOR
- VIR
- OTHER

TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

Students work on drawings.

CRITIQUE OF LESSON:
INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 12-5-71

TITLE OF COURSE: Mech. Drawing I - 1

LESSON NO. 23

TITLE OF LESSON: Dimensioning

LESSON OUTLINE:

1. Dimensioning
   A. Four types of lines used.
      1. Extension
         a. 1/16" gap next to object.
         b. 1/8" beyond arrowhead.
      2. Dimension
         a. Arrowheads at each end.
         b. Gap in middle
         c. 3/8" from object
         d. 1/4" apart

   4. Center
      a. 1/4" outside hole
   3. Leader
      a. "Inclined"

REVIEW QUESTIONS:

1. Name four types of lines used?
2. Arrowheads are used on ?
3. Extension lines have---" beyond arrowhead.
4. Center line is extended---" outside hole.
5. Leader's are straight _______ lines.

AV EQUIPMENT:

____ OVERHEAD  ____ T.V.  ____ SLIDE PROJECTOR
____ FILM PROJECTOR  ____ VTR
____ OTHER  ___________________________________________
____ TITLE OF FILM ETC.  ___________________________________

INSTRUCTIONAL EQUIPMENT:

Blackboard

ASSIGNMENT:

Students finish three view drawings and read chapter 9
p. 141 - 143

CRITIQUE OF LESSON:
TITLE OF COURSE  Mech. Drawing I
TITLE OF LESSON  Dimensioning

LESSON OUTLINE:

I. Dimensioning
   A. Arrowheads
      1. Length - 1\(\frac{1}{8}\)"
      2. Width - 1\(\frac{1}{3}\)"
   B. Dimension Figures
      1. Numerals - 1\(\frac{1}{8}\)" high
         a. 1/16 or 1/32" apart.
      2. Guide lines

REVIEW QUESTIONS:

1. What is length of arrowhead?
2. What is width?
3. What is height of numerals?
4. What is spacing of numerals?

AV EQUIPMENT:

- OVERHEAD
- T.V.
- SLIDE PROJECTOR
- FILM PROJECTOR
- VIR
- OTHER
- TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

- Blaskboard

ASSIGNMENT:

Read p. 143 - 145 and work problems 1-4, p. 165

CRITIQUE OF LESSON:
GRAPHIC ARTS 3.
INSTRUCTOR    John Rickman       DATE TO BE GIVEN:  11-7 to 11-11

TITLE OF COURSE    Graphics       LESSON NO.  1-5

TITLE OF LESSON    Silk Screening, offset, etc.

LESSON OUTLINE:

Work days - Students work on projects.

REVIEW QUESTIONS:

AV EQUIPMENT:

___ OVERHEAD ___ T.V.  ___ SLIDE PROJECTOR

___ FILM PROJECTOR ___ VIR

___ OTHER ___________________________

___ TITLE OF FILM ETC. ___________________________

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

Students finish up projects.

CRITIQUE OF LESSON:
PRESENTATION AND/OR DEMONSTRATION PLAN

INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 11-14-77

TITLE OF COURSE: Graphics

LESSON NO.: 6

TITLE OF LESSON: Halftone Photography

LESSON OUTLINE:

1. Halftone
   A. Gradation of tone
      1. Gradual variation of tones ranging from lightest to darkest.
   B. Halftone process
      1. No gradation of tone.
      2. Picture of dots and checkerboard squares of varying sizes.
      3. Halftone negative
         a. Composed of dense, opaque dots and squares and clear transparent areas.

REVIEW QUESTIONS:

1. What is gradation of tone?
2. Halftone is composed of?
3. Halftone negative is composed of?

AV EQUIPMENT:

____ OVERHEAD ______ T.V. ______ SLIDE PROJECTOR
____ FILM PROJECTOR ______ VTR

____ OTHER ______________________________________

____ TITLE OF FILM ETC. ________________________________

INSTRUCTIONAL EQUIPMENT:

Students read chapter 9, p. 144-168

ASSIGNMENT:

CRITIQUE OF LESSON:
LESSON OUTLINE:

I. Halftone Dots
   A. Highlight areas of copy.
      1. Lightest.
   B. Middle-tone areas.
      1. Mid-tone.
   C. Shadow areas.
      1. Darkest.

II. Types of Screens.
    A. Prescreened Film.
    B. Glass Screen
    C. Contact Screen

REVIEW QUESTIONS:

1. The highlight area of copy is the _______ area of negative.
2. The shadow area of copy is the _______ area of negative.
3. Name the types of screens and how they are used.

AV EQUIPMENT:

_____ OVERHEAD   _____ T.V.        _____ SLIDE PROJECTOR
_____ FILM PROJECTOR  _____ VTR
_____ OTHER
_____ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

Students continue reading chapter 9.

ASSIGNMENT:

CRITIQUE OF LESSON:
INSTRUCTION | John Rickman | DATE TO BE GIVEN: 11-16-77

TITLE OF COURSE | Graphics | LESSON NO. | 8 & 9

TITLE OF LESSON | Halftone Photography |

LESSON OUTLINE:

I. Exposure computer.
   A. Calibrating
      1. Detail Exposure (test)
      2. Flash Exposure (test)
      3. Process test negative
      4. Set computer
      5. Using computer
         1. Shadow Density
         2. Highlight Density
         3. Density Range of Copy
         4. Basic Density Range
         5. Excess Density Range

REVIEW QUESTIONS:

1. Why do we calibrate the computer?
2. What is the purpose of the test exposures?
3. How do you shoot the Detail Exposure?
4. How do you shoot the Flash Exposure?

AV EQUIPMENT:

| OVERHEAD | T.V. | SLIDE PROJECTOR |
| FILM PROJECTOR | VTR |

OTHER | Copy camera |

TITLE OF FILM ETC. |

INSTRUCTIONAL EQUIPMENT:

Litho film
Developing chemicals

ASSIGNMENT:

CRITIQUE OF LESSON:
INSTRUCTOR  John Rickman                        DATE TO BE GIVEN:  11-10-77
TITLE OF COURSE  Graphics                    LESSON NO.  10
TITLE OF LESSON  Halftone Photography

LESSON OUTLINE:
I. Kodak Reflection Density Guide
   A. Dark area of copy (picture).
   B. Lightest area of copy.
   c. Difference between highlight and shadow areas is density range.

REVIEW QUESTIONS:
1. How is the density guide used?
2. What part is shadow area?
3. What part is highlight area?
4. How do you find density range?

AV EQUIPMENT:

___ OVERHEAD ___ T.V. ___ SLIDE PROJECTOR
___ FILM PROJECTOR ___ VTR
___ OTHER

___ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

Students pick pictures you want to use.

ASSIGNMENT:


CRITIQUE OF LESSON:
INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 11-21 to 11-27

TITLE OF COURSE: Graphics

LESSON NO.: 11, 12, 13

TITLE OF LESSON: Halftone Photography

LESSON OUTLINE:

Computer Quiz and work days.

REVIEW QUESTIONS:

AV EQUIPMENT:

____ OVERHEAD  ____ T.V.  ____ SLIDE PROJECTOR

____ FILM PROJECTOR  ____ VIR

____ OTHER

____ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

Quiz papers

ASSIGNMENT:

Students take quiz and begin work on projects.

CRITIQUE OF LESSON: 
A MAIN EXPOSURE ON A PROCESS CAMRA TAKEN OF A ROBIC REFLECTION DENSITY GUIDE THROUGH A MAGENTA CONTACT SCREEN REVEALS A GOOD EXPOSURE AT F16 FOR 40 SEC. A GOOD HIGHLIGHT DOT REGISTERS .10 AND A GOOD SHADOW DOT REGISTERS 1.30.

A SERIES OF FLASH EXPOSURES TAKEN AT 10 SEC. INTERVALS FROM 10 SEC. TO 100 SEC. REVEAL A GOOD SHADOW DOT AT 30.

THE COPY PHOTOGRAPH HAS A HIGHLIGHT DENSITY OF .10 AND A SHADOW DENSITY OF 1.70.

1. DETAIL EXPOSURE _______ SEC.
2. SHADOW DENSITY _______
3. HIGHLIGHT DENSITY _______
4. DENSITY RANGE OF COPY _______
5. BASIC DENSITY RANGE _______
6. EXCESS DENSITY RANGE _______
7. FLASH EXPOSURE _______

NAME _______
DATE _______
INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 11-22 to 12-2

TITLE OF COURSE: Graphics

LESSON NO.: 14, 15, 16, 17, 18

TITLE OF LESSON: Halftone Photography

LESSON OUTLINE:

Work Days

REVIEW QUESTIONS:

AV EQUIPMENT:

OVERHEAD

T.V.

SLIDE PROJECTOR

FILM PROJECTOR

VIR

OTHER

TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

Students work on projects.

CRITIQUE OF LESSON:
INSTRUCTOR  John Rickman  DATE TO BE GIVEN: 12-5, 12-8, 12

TITLE OF COURSE  Graphics  LESSON NO. 19, 20, 21

TITLE OF LESSON  Halftone Photography

LESSON OUTLINE:

Work Days and grade projects.

REVIEW QUESTIONS:

AV EQUIPMENT:

____ OVERHEAD  ____ T.V.  ____ SLIDE PROJECTOR

____ FILM PROJECTOR  ____ VTR

____ OTHER  ________________________________

____ TITLE OF FILM ETC.  ________________________________

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

CRITIQUE OF LESSON:
ARCHITECTURAL DRAWING 2 & 5.
LESSON OUTLINE:
1. The floor plan
   a. Partition walls.
   b. Exterior walls.
2. Location of:
   a. Rooms and types.
   b. Doors and types.
   c. Windows and types.
3. Room sizes.
   a. Bed Rooms.
   b. Bath Rooms.
   c. Kitchen
   d. Dining Room
   e. Living Room.
   f. Family Room.

REVIEW QUESTIONS:
1. What is a floor plan?
2. Where should the different rooms be located?
3. What size should the different rooms be?
4. Name some other types of rooms.

AV EQUIPMENT:

X OVERHEAD            T.V.         SLIDE PROJECTOR
FILM PROJECTOR        VTR
OTHER

TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:
1. Students work on drawings.

CRITIQUE OF LESSON:
LESSON OUTLINE:

1. Dimensioning of:
   a. Windows - center line location
   b. Doors - center line location
   c. Walls
      1. Exterior - dimension line to outside wall.
      2. Interior - dimension line to center of wall.
   d. Exterior dimensioning
      1. 3/3" from wall and between windows and doors.
      2. Over-all dimension - total length and width of house.

REVIEW QUESTIONS:

1. Where should center lines be placed?
2. Why dimension to outside wall from rooms?
3. Why dimension between partition walls?
4. How far should dimension line be from wall of house?

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INSTRUCTIONAL EQUIPMENT:

1. Blue prints.

ASSIGNMENT:

CRITIQUE OF LESSON:
INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 11-2-77

TITLE OF COURSE: ARCH. DRAWING 2 & 5

LESSON NO. 3

TITLE OF LESSON: Floor Plan

LESSON OUTLINE:

Work Day

REVIEW QUESTIONS:

AV EQUIPMENT:

OVERHEAD

T.V.

SLIDE PROJECTOR

FILM PROJECTOR

VIR

OTHER

TITLE OF FILM etc.

INSTRUCTIONAL EQUIPMENT:

1. Blue Prints
2. House plans

ASSIGMENT:

1. Students work on drawings.

CRITIQUE OF LESSON:
INSTRUCTOR John Rickman

DATE TO BE GIVEN: 11-3-77

TITLE OF COURSE Arch. Drawing 2 & 5

LESSON NO. 4

TITLE OF LESSON Floor Plan

LESSON OUTLINE:

Work Day

REVIEW QUESTIONS:

AV EQUIPMENT:

____ OVERHEAD

____ T.V.

____ SLIDE PROJECTOR

____ FILM PROJECTOR

____ VIR

____ OTHER

____ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

1. Blue Prints

2. House plans

ASSIGNMENT:

Students work on drawings.

CRITIQUE OF LESSON:
INSTRUCTOR: John Richman
DATE TO BE GIVEN: 11-4-77

TITLE OF COURSE: Arch. Drawing 2 & 5
LESSON NO.: 5

TITLE OF LESSON: Floor Plan

LESSON OUTLINE:
Work Day

REVIEW QUESTIONS:

AV EQUIPMENT:

- OVERHEAD
- T.V.
- SLIDE PROJECTOR
- FILM PROJECTOR
- VTR
- OTHER
- TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:
1. Blue Prints
2. House Plans

ASSIGNMENT:
Students work on drawings.

CRITIQUE OF LESSON:
INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 11-7-77

TITLE OF COURSE: Arch. Drawing 5 & 2

LESSON NO. 6

TITLE OF LESSON: Quiz #1 Dimensioning

LESSON OUTLINE:

1. Arch. Drawing Quiz
   a. Dimensioning Floor Plan.

REVIEW QUESTIONS:

AV EQUIPMENT:

___ OVERHEAD ___ T.V. ___ SLIDE PROJECTOR

___ FILM PROJECTOR ___ VIR

___ OTHER

___ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

1. Quiz Papers

ASSIGNMENT:

1. Students take quiz.

CRITIQUE OF LESSON:
ARCHITECTURE - QUIZ # 1

FLOOR PLAN

INSTRUCTIONS:

1. Use 1/4" = 1' as your scale.

2. Name all rooms.

3. Dimension all rooms.
   a. Width and length.

4. Dimension outside walls.
   a. Center line of windows and doors.
   b. Overall length and width of floor plan.
9. Darken object lines. (Use H or 2H pencil.)
14. Add extension lines.
15. Add dimension lines. (Use 3H pencil.)
16. Add arrowheads.
17. Add dimensions.
18. Letter room labels.
19. Letter any notes. (Use 3H pencil.)
MECHANICAL DRAWING - QUIZ # 1

SAFETY KEY

INSTRUCTIONS:

1. Draw right side view.
2. Dimension all three views.
3. Give angle in top view.
INSTRUCTOR  John Richman  DATE TO BE GIVEN:  11-6-77

TITLE OF COURSE  Inservice Meeting  LESSON NO.  

TITLE OF LESSON

LESSON OUTLINE:

REVIEW QUESTIONS:

AV EQUIPMENT:

___ OVERHEAD  ___ T.V.  ___ SLIDE PROJECTOR

___ FILM PROJECTOR  ___ VTR

___ OTHER

___ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

CRITIQUE OF LESSON:
INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 11-2 & 11-9

TITLE OF COURSE: Arch. Drawing 2 & 5

LESSON NO. 7 & 8

TITLE OF LESSON: Floor Plan

LESSON OUTLINE:

Work Days

REVIEW QUESTIONS:

AV EQUIPMENT:

--- OVERHEAD --- T.V. --- SLIDE PROJECTOR

--- FILM PROJECTOR --- VTR

--- OTHER

--- TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

CRITIQUE OF LESSON:
INSTRUCTOR John Rickman

DATE TO BE GIVEN: 11-11-77

TITLE OF COURSE Arch. Drawing 2 & 5

LESSON NO. 9

TITLE OF LESSON Floor Plan

LESSON OUTLINE:

Work Day - Finish up floor plan

REVIEW QUESTIONS:

AV EQUIPMENT:

_____ OVERHEAD  _____ T.V.  _____ SLIDE PROJECTOR

_____ FILM PROJECTOR  _____ VTR

_____ OTHER

_____ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

CRITIQUE OF LESSON:
INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 11-14-77

TITLE OF COURSE: Arch. Drawing 2 & 5

LESSON NO.: 10

TITLE OF LESSON: 2-Footings, 5-Elevations

LESSON OUTLINE:

2 - Footing

A. Concrete pad - 6" thickness min.
B. Types
   1. Conventional Rectangular
   2. Flared
   3. Stepped
   4. Pier and column
   5. Pilaster
   6. Piling

5 - I. Elevations

A. How to draw. (Transparencies)

REVIEW QUESTIONS:

1. What is a footing?
2. Min. Thickness is?
3. Name types. and how used?

AV EQUIPMENT:

X OVERHEAD       T.V.       SLIDE PROJECTOR
       FILM PROJECTOR       VIR

OTHER

TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

Blackboard

ASSIGNMENT:

2 - Students begin work on foundation plan.
5 - Students begin work on elevations.

CRITIQUE OF LESSON:
1. Project vertical lines down from corners of floor plan.
2. Draw horizontal lines showing height of chimney, ridge, eave, and ground lines.
1. Project vertical lines down from corners of floor plan.
2. Draw horizontal lines showing height of chimney, ridge, eave, and ground lines.
3. Lay out roof pitch.
4. Add roof overhang.
5. Locate and project eave and rafter lines.
1. Lay out rise and run to establish roof angle.
2. Extend angle to show roof line.
3. Draw parallel line to show fascia.
1. Lay out rise and run to establish roof angle.
2. Extend angle to show roof line.
3. Draw parallel line to show fascia.
4. Draw vertical line for outside wall.
5. Measure width of overhang and draw vertical line.
6. Measure distance from top of outside wall to grade line.
7. Draw and extend grade line.
8. Measure from outside wall to center line of roof; draw vertical center line.
9. Draw opposite side of roof showing outside wall and width of overhang.
10. Darken all object lines.
11. Add siding symbols and door or window symbols.
12. Add gutter or cornice details.
13. Dimension if necessary.
14. Add landscaping if desired.
PRESENTATION AND/OR DEMONSTRATION PLAN

INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 11-15 to 11-17

TITLE OF COURSE: Arch. Drawing 2 & 5

LESSON NO.: 11, 12, 13, 14

TITLE OF LESSON: 2-Foundation, 5-elevations

LESSON OUTLINE:

2 - I. Foundation Plan.
   A. Base for house
   B. Crawl Space - 18" to 24".
   c. Footing
   d. Foundation walls

II. Basement Plan
   A. Show, windows, doors, furnace, etc.

Work days

REVIEW QUESTIONS:

1. What is purpose of foundation?
2. What is height of crawl space?
3. Foundation plan shows _____ and _______.
4. Basement plan shows?

AV EQUIPMENT:

_____ OVERHEAD _____ T.V. _____ SLIDE PROJECTOR

_____ FILM PROJECTOR _____ VIR

_____ OTHER

_____ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

Blackboard

ASSIGNMENT:

2- Students work on foundation plan.
5- Students work on elevations and models.

CRITIQUE OF LESSON:
PRESENTATION AND/OR DEMONSTRATION PLAN

INSTRUCTOR: John Rickman
DATE TO BE GIVEN: 11-21 to 11

TITLE OF COURSE: Arch. Drawing 2
LESSON NO.: 15, 16, 17

TITLE OF LESSON: Foundation Plan

LESSON OUTLINE:

Work Days

REVIEW QUESTIONS:

AV EQUIPMENT:

_____ OVERHEAD
_____ T.V.
_____ SLIDE PROJECTOR

_____ FILM PROJECTOR
_____ T.V.

_____ OTHER

_____ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

Students work on drawings

CRITIQUE OF LESSON:
INSTRUCTOR     John Pickman          DATE TO BE GIVEN: 11-21 to 25
TITLE OF COURSE  Arch. Drawing 5    LESSON NO. 15, 16, 17
TITLE OF LESSON Elevations and models

LESSON OUTLINE:

Work days and grade projects.

REVIEW QUESTIONS:

AV EQUIPMENT:

_____ OVERHEAD     _____ T.V.     _____ SLIDE PROJECTOR
_____ FILM PROJECTOR _____ VIR
_____ OTHER
_____ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

Students finish up drawings and models.

ASSIGNMENT:

CRITIQUE OF LESSON:
INSTRUCTOR    John Richmond

DATE TO BE GIVEN:  11-28 to 12

TITLE OF COURSE Arch. Drawing 2

LESSON NO.  19, 19, 20, 21, 22

TITLE OF LESSON  Foundation Plan

LESSON OUTLINE:

- Work days and grade floor plans

REVIEW QUESTIONS:

AV EQUIPMENT:

- OVERHEAD
- T.V.
- SLIDE PROJECTOR
- FILM PROJECTOR
- VTR
- OTHER
- TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

- Students work and finish up foundation plan.

CRITIQUE OF LESSON:
LESSON OUTLINE:

I. Electrical Plan
   A. Types of residential circuits
      1. General purpose  3. Appliance
      2. Special purpose
   B. Electrical Symbols
      1. General Outlets
      2. Convenience Outlets
      3. Switch Outlets
      4. Auxiliary Symbols

REVIEW QUESTIONS:

1. What are the three types of residential circuits and where are they used?
2. Name two general outlets.
3. Name two convenience outlets.
4. Name two types of switches.
5. Name two auxiliary symbols.

AV EQUIPMENT:

___ OVERHEAD  ___ T.V.  ___ SLIDE PROJECTOR
___ FILM PROJECTOR  ___ VIT
___ OTHER

___ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

Students begin work on electrical plan.

CRITIQUE OF LESSON:
INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 12-7-77

TITLE OF COURSE: Arch. Drawing 2

LESSON NO.: 24

TITLE OF LESSON: Field Trip - NASA, Hampton, Va.

LESSON OUTLINE:

Field Trip

REVIEW QUESTIONS:

AV EQUIPMENT:

____ OVERHEAD

____ T.V.

____ SLIDE PROJECTOR

____ FILM PROJECTOR

____ VTR

____ OTHER

____ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

CRITIQUE OF LESSON:
INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 12-3 to 12-9

TITLE OF COURSE: Arch. Drawing 2

LESSON NO.: 25, 26

TITLE OF LESSON: Electrical plan

LESSON OUTLINE:

Work Days

REVIEW QUESTIONS:

AV EQUIPMENT:

_____ OVERHEAD _____ T.V. _____ SLIDE PROJECTOR

_____ FILM PROJECTOR _____ VTR

_____ OTHER

_____ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

ASSIGNMENT:

Students work on electrical plans

CRITIQUE OF LESSON:
MECHANICAL DRAWING (MINI) 5.
INSTRUCTOR: John Hickman

DATE TO BE GIVEN: 11-29-77

TITLE OF COURSE: Mech. Drawing (MURL)

LESSON NO. 1 & 2 11-29-77

TITLE OF LESSON: Sketching Three Views

LESSON OUTLINE:

I. Introduction to class.
   A. Three view sketching from pictorial.
   B. Oblique drawing.
   C. Pictorial Drawing.

REVIEW QUESTIONS:

1. What is a pictorial drawing?
2. What is oblique drawing?

AV EQUIPMENT:

___ OVERHEAD ___ T.V. ___ SLIDE PROJECTOR
___ FILM PROJECTOR ___ VIR
___ OTHER ____________________________
___ TITLE OF FILM ETC. ______________________

INSTRUCTIONAL EQUIPMENT:

Blackboard

ASSIGNMENT:

Students work on sketching

CRITIQUE OF LESSON:
PRESENTATION AND/OR DEMONSTRATION PLAN

INSTRUCTOR: John Rickman

DATE TO BE GIVEN: 11-30, 12-1, 12-2

TITLE OF COURSE: Mech. Drawing (MINI)
LESSON NO.: 3, 4, 5

TITLE OF LESSON: Lettering

LESSON OUTLINE:

I. Lettering
   A. Numerals
   B. Letters of alphabet

REVIEW QUESTIONS:

AV EQUIPMENT:

___ OVERHEAD
___ T.V.
___ SLIDE PROJECTOR
___ FILM PROJECTOR
___ VTR
___ OTHER
___ TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

Blackboard

ASSIGNMENT:

Students work on lettering.

CRITIQUE OF LESSON:
INSTRUCTOR: John Rickmann

DATE TO BE GIVEN: 12-5-77

TITLE OF COURSE: Mech. Drawing (MINI)

LESSON NO.: 6

TITLE OF LESSON: Reading a rule

LESSON OUTLINE:

1. Reading a rule.
   a. 1" scale
   b. 1/3" scale
   c. 1/16" scale
   d. 1/4" scale
   e. 1/2" scale

REVIEW QUESTIONS:

AV EQUIPMENT:

_____ OVERHEAD _____ T.V. _____ SLIDE PROJECTOR

_____ FILM PROJECTOR _____ VIR

_____ OTHER ____________________________________________

_____ TITLE OF FILM ETC. ________________________________

INSTRUCTIONAL EQUIPMENT:

Blackboard

ASSIGNMENT:

Students work on assignment

CRITIQUE OF LESSON:
INSTRUCTOR  John Rickman  DATE TO BE GIVEN: 12-3, 12-6

TITLE OF COURSE  Mech. Drawing (REDI)  LESSON NO. 7, 8

TITLE OF LESSON  Name Plate and Sketching

LESSON OUTLINE:

I. Name Plate
   A. Layout C
II. Sketching - three views

REVIEW QUESTIONS:

AV EQUIPMENT:

OVERHEAD  T.V.  SLIDE PROJECTOR

FILM PROJECTOR  VTR

OTHER  TITLE OF FILM ETC.

INSTRUCTIONAL EQUIPMENT:

8 1/2 x 10 1/2 paper

ASSIGNMENT:

Students do layout C and sketch problems 1-12, p. 98.

CRITIQUE OF LESSON: