

STUDY QUESTIONS — STEP 1

Name **Justin Millman, 1st period**

1. List all of the courses that are part of the Technical Drawing Program at Stevenson High School: (Use abbreviations)

<u>EC 191/192 Intro. to Tech Draw</u>
<u>TEC 221/222 Architecture CAD</u>
<u>TEC 201/202 Engineering CAD</u>
<u>TEC 231/232 Adv. Architecture</u>
<u>TEC 211/212 Adv. Engineering</u>
<u>TEC 521/522 Adv. CAD</u>
..... <u>Architecture</u>
..... <u>Engineering</u>
<u>TEC 541/542 Adv. CAD 2</u>
..... <u>Architecture</u>
..... <u>Engineering</u>
<u>TEC 571/572 Engineering Graphics Acc.</u>
<u>Summer School - Education to Careers</u>
<u>Architecture & Engineering</u>

2. List the TWO courses that can be taken after completing the Introduction to Technical Drawing course? **TEC 221: Architecture CAD and TEC 201: Engineering CAD**

3. List the six units by name that are required of all students during the semester of Introduction to Technical Drawing:

<i>Unit 1 - Introduction to Technical Drawing/CAD</i>
<i>Unit 2 - Lettering Styles, Tools & Techniques</i>
<i>Unit 3 - The Design Process for Solving Problems</i>
<i>Unit 4 - Sketching & Orthographic Projection</i>
<i>Unit 5 - Drawing Equipment, Tools & Supplies</i>
<i>Unit 6 - Interpretation, Assembly & Prototyping</i>

4. What is Technical Drawing?

Technical drawing is the study of the procedures, tools, supplies, skills and techniques used to record and communicate the shape and size of a product. Every product we have today (cars, houses, beds, tables, chairs, desks, appliances, tools, packages, clothing, toys, dishes, radios, CD players, video games, roads, bridges, airplanes, ships, buses, computers, telephones, fax machines, copiers, air-conditioners, heaters, light bulbs, keys, etc.) began as an "idea" in some person's head. Before these "ideas" became products, they had to be drawn on paper. These "drawings" had to show what the "idea" looked like from different directions (top, front and right side views); how long, wide and high the object was; what materials were needed to make the object and what the product was called (model name and number).

5. List five (5) industries (i.e. aerospace) that use Technical Drawings?

Aviation, Construction, Data Processing, Publishing, National Defense

7. What is the purpose of the "Information Sheet"?

To outline the unit of study and provide one with objectives, references, and assignments for each unit

8. What is the purpose of the "Study Questions"?

These questions pertain to the most important bits of information that you will need to know when working on assignments; and most of these questions will appear on the "Unit Achievement Test" at the end of each "Step".

9. What is the purpose of a "Division Sheet"?

The "Division Sheet" will provide you with opportunities to practice organizational, lettering, and sketching skills as well as serve as an "Indexing Page" for organizing your Portfolio.

10. What is the purpose of the "Assignments"?

Assignments in general are designed to test a skill that has been taught to ensure that the student has adequately learned said skill.

11. What is the purpose of "Optional Activities (Extra Credit)"?

When you have completed all the **required** assignments, you may work on "**Optional**" activities for "Extra Credit" **or** move on to the **next "Step"**. "Optional" activities are for the student who works at a faster rate and is interested in a more in depth understanding of the topic.

12. What is the purpose of "Achievement Tests"?

At the completion of a "Step", you will take an "**Achievement Test**" that is based on the "**Study Questions**" and the "**Drawing Assignments**" that you have completed. The "**Achievement Test**" will indicate what you **have learned** and what you **need to work on** to be successful on future assignments.

13. What is the purpose of a "Portfolio"?

As a representation of your accomplishments in class; can be helpful for organization and as a reference source

14. What is the purpose of "Open Lab Time"?

"OPEN LAB" means that any Technical Drawing student may use the facilities and that an instructor is available to answer questions.

15. How are your "Drawing Assignments" evaluated?

Drawing Assignments are evaluated on neatness, the amount of revisions needed, and the quality of the work in meeting the objectives set.

16. How is your "Homework" evaluated?

Homework is evaluated on neatness, the amount of revisions needed, and the quality of the work in meeting the objectives set.

17. How is your "Portfolio" evaluated?

Completeness, organization, and neatness at the end of the six week grading period

18. Describe "W.H.A.T." and explain how it influences your six week grade:

Your W.H.A.T. (**Work Habits, Attitude, Attendance, Tardiness, and Trustworthiness**) grade will be based on the following characteristics that you demonstrate while in a Tech Ed class. These observable traits should accumulate as you progress through the semester. Your W.H.A.T. grade represents 10% of your 6-week grade based on 25 points.

19. List the FIVE criteria and percentages used to calculate Six Week Grades:

Home Work Assignments = 10%

Drawing Assignments = 50%

Unit Tests = 20%

Portfolio = 10%

W.H.A.T = 10%

20. Why are clean-up procedures necessary?

Clean Up Procedures are necessary to keep the lab and computers clean and to ensure assignments are not lost.

21. What is the title of your Technical Drawing textbook and who are the authors?
"Drafting in a Computer Age"