DRAFTING I

FALL 2024   **ETHAN RHINEHART**

erhinehart@haywood.k12.nc.us   **ROOM: E6**

COURSE DESCRIPTION: This course will introduce you to the graphic tools used to communicate and understand ideas and concepts found in the areas of architecture, manufacturing and engineering. Lecture, discussion, individual and group work will be part of the daily routine. The majority of class time will be spent working on mechanical drawings and projects using CAD software. There will also be a focus on identifying careers, career goals and opportunities related to the technical drafting field.

COURSE OBJECTIVES:
- Concepts/Trends of Drafting
  - BIM, Industrial & Sust. Design, Rapid Prototyping, LEED Careers
- Sketching
  - 2D – Single view & Multi-view
  - 3D – Pictorials (Isometric & Oblique)
- Basic Drafting Skills
  - Manual Drafting tools and techniques
- Dimensioning
- Multi-View Drawing
  - 2D drawing of 3D objects
- Applied Geometry
- Computer Aided Drafting
  - AutoCAD (2D) & Inventor (3D)
- Autodesk Certification - AutoCAD

GRADING: Daily Work
    Quizzes
    Tests
    Projects

Final Course Grade: N1 = 37.5% + N2 = 37.5%   + Final Exam = 25%

ATTENDANCE: 5 absences = Letter & phone call to parent

7, 8 & 9 absences = make up that time at attendance make-up session

10+ absences = Submit appeal to office / potentially no course credit

Supplies: You will need:
* A Pencil (0.5 or 0.7) & Eraser
* Notebook/Folder

Assignments:
Turn in all assignments on time. Keep your notebook **organized** and in your drawer / cabinet at all times. Notebooks will be checked periodically (announced or un-announced).

Make-Up Work Policy:
Students shall have two (2) school days per absence to complete missed assignments. A maximum of ten (10) days will be allowed for students to complete all missed work.

Classroom Rules:
Posted at the front of the room.
You are in high school…you should know how to act and what's expected!

Technology use:
Use of the computer, HCS network and Internet is required for this course. The HCS policy 3226/4205 *Internet Safety* and HCS policy 3225/4312/7320 *Technology Responsible Use* will be reviewed in class. All students are expected to know, understand and apply these policies. Violators will lose computer privileges which could result in failure of this course. You do not have privacy while using HCS computer systems. The computer systems are monitored and anything that you send or receive may be viewed by employees of HCS. Students will be asked to sign that they have read and understand these policies. School-issued email accounts should only be used for school related activities. These accounts are also monitored and violations can result in a loss of computer privileges.

1	6
2	7
3	8
4	9
5	10