

Computer Aided Drafting 2

Syllabus

Course Description

Computer Aided Drafting 2
Calallen High School

Student Required Supplies: folder or binder to keep handouts

School Provided Materials: Computers, AutoCAD software, Engineering Notebook, tools

****Students will keep all equipment in the classroom! The tools, equipment, drafting pencils, rulers, calculators, and other equipment belong to the school and are not for student's use outside the room.**

Requirements for Assignments:

Students will have the majority of class time for assignments as I realize the equipment and software is not available outside of school for students. However, if a student is not able to complete the project during class time, then it is the responsibility of the student to make arrangements with me to have access to the CAD room to complete projects.

Instructor Disclaimer:

Despite careful planning, situations sometimes arise which can alter the subject matter being taught. The unit/schedule is tentative and subject to change.

Academic Integrity:

Academic Integrity is essential to a positive teaching and learning environment. All students are expected to complete coursework responsibilities with fairness & honesty. Failure to do so, by seeking unfair advantage over others or misrepresenting someone else's work with your own will result in disciplinary action. Students caught cheating will be dealt appropriate consequences after a meeting with the student, teacher, principal and parents to address this serious issue.

Classroom Expectations:

In addition to the Calallen Student Code of Conduct the following is expected in the classroom:

- Respect, Responsibility, Trustworthiness, Caring/Kindness, Citizenship
- This is a Pre-Engineering Course and the level of expectation for mature, ethical behavior is increased and anything less will not be tolerated as it does not lead to the professional conduct expected in the “Real World.”

If you choose not to follow the expectations or guidelines the following will take place:

RESULTS OF CHOICES

- Student/Teacher Conference
- Parent phone call
- Appropriate Consequences

Assignment and & Testing

All assignments and exams and the final exam will be conducted online through the Canvas Course Site.

Instructional Methodology

This course is taught in class with assignments and reading materials through Canvas in a lecture/laboratory format. The lecture will introduce concepts and skills, which will be developed and applied during lab time.

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Students enrolled in this course will demonstrate knowledge and skills using multiple software applications and tools necessary to produce and present computer aided drawings, solid model renderings, and prototypes. Students will use a variety of computer software to learn basic CAD skills in 2D and 3D formats. The first semester will focus on Autodesk Inventor with an opportunity for students to test for Autodesk Inventor certification at the conclusion. The second semester will focus on SOLIDWORKS and students will have an opportunity to test for certification in SOLIDWORKS as well. Students who are interested in careers leaning towards Engineering, Architecture, Process Technology, Pipe fitting, Design, Industrial Design, and more should consider this course.

Unit Summary

Semester 1: Inventor and testing for certification

Semester 2: Solidworks and testing for certification