

CROOK COUNTY HIGH SCHOOL
Geometry in Construction
COURSE EXPECTATIONS & SYLLABUS

Geometry in Construction will teach the relevance of geometry through the building of a real world pre-fabricated construction project (tiny home, tough shed, etc.). It is highly recommended for students interested in engineering, architecture, or construction. A math teacher and a CTE teacher partner together to teach the geometry objectives through fabrication. Students must enroll for one hour of geometry and one hour of manufacturing and will be assigned a two-hour block. Students receive one math credit and one CTE/elective credit.

INTRODUCTION

Instructors: Mr. Billy Hall, Mr. Jake Williams
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ATTENDANCE AND TARDY POLICY

Employers have high expectations regarding attendance and promptness of employees. As a result, students will practice employable work skills by maintaining a good record of attendance and promptness. In addition, time sheets will be maintained, completed, and turned in weekly. **This is the sole responsibility of the student. CCHS ATTENDANCE POLICY WILL BE FOLLOWED.**

TARDIES

I will follow the school tardy policy.

POLICIES AND PROCEDURES

Welcome to the PC Lab! Please abide by these rules at all times.

1. **FOOD OR DRINK IS NOT** allowed near the computer or at your computer workstation. You will be required to place food and beverages at the designated area **BEFORE** entering the lab.
2. **BE HERE AND BE ON TIME.** It will be very difficult to achieve a passing grade if you miss several classes. **You are expected to be in your seat WORKING when the bell rings.**
3. **INTERNET & GAMES USE MUST BE APPROVED BY INSTRUCTOR,** misuse of this privilege will result in disciplinary actions, department detention or disciple referral.
4. **NO CELLPHONES AT ANYTIME.** If I see a phone, you receive a referral.
5. **YOU ARE NOT ALLOWED TO ACCESS ANOTHER STUDENTS ACCOUNT. OTHER STUDENTS ARE NOT ALLOWED TO ACCESS YOUR ACCOUNT.**

DISCIPLINE

No student has the right to make anyone feel unwelcome in this classroom. I will strictly enforce this philosophy. You will be expected to **respect all equipment** in the room. You will also be expected to respect the right of all students to learn! This means that you are quiet and your eyes are on the teacher when instruction is given. I will use department detentions, referrals, or removal from class to make sure that all students follow these rules.

COURSE CONTENT

In this class students will learn about the following areas:

First semester will teach students about inductive and deductive reasoning, triangles, congruence and quadrilaterals. It will also teach how to use the tools of geometry in construction problems.

Second semester will teach students about similar polygons, regular polygons, circles, measurements of angles and arcs, coordinate geometry, transformations, area and volumes. A large portion of the course involves proving theorems and statements. Course Objectives: 1.

Teach students to justify all statements with logical reasons. 2. Develop and refine reasoning skills including abstract reasoning. 3. Develop organized thinking skills. 4. Recognize and understand relationships among geometrical figures, including real-world applications. Note:

Changes to this syllabus may occur during the school year

GRADING

Grades will be based on the following scale.

100% = A+
90% = A
80% = B
70% = C
60% = D
59%=F

Production/Projects = 45%
Tests/Quizzes = 45%
Homework = 5%
Classwork=2.5%
Participation=2.5%

MAKEUP WORK POLICY

The real world has deadlines, bosses expect employees to complete work by a specified time. Students have deadlines such as contests, scholarship applications, college applications, and job applications. To treat assignment deadlines as less important than other deadlines shows a lack of respect for your school work.

- When assignments are not turned in by the due date, you will receive a missing grade, which is equivalent to a zero.
- Work turned in after the due date will be considered late. Late work will be graded; the equivalent of one letter grade will also be deducted from the final score as penalty.
- **All work must be completed in the lab in order to get credit.**

STANDARDS AND ETHICS

You are expected to practice appropriate ethical conduct by **INDEPENDENTLY** completing assignments and lab work. Students will not copy from or use answers or data from other students. Neither will a student supply answers or data to other students. **Violation of this policy is a very serious offense and will result in a 0 for the assignment without the possibility of repeating it and will be given a discipline referral. Repeated violations will result in an "F" for the semester grade and removal from class.** You will be expected to show that you completed your work by saving all assignments and projects in your file. This will protect you from lost assignments and being blamed for violating this policy. **Save all work that is turned in and save frequently to avoid technology problems that may occur.**