**Structural Systems II**

**Whitwell High School**

**Instructor:** Name: Travis Olinger

Telephone: 423-658-5141

\* Email: tolinger@mctns.net

Available after school: Monday and Thursday from 2:25 – 3:25 by

appointment only. Confirm date and time before appointment.

\*Asterisk denotes teacher’s preferred way of communication.

**Google class code**: 2nd period code h64g2t5

6th period code itt5dvh

**Course Description**

Students will extend their skills and knowledge related to residential and commercial structures (foundations, wall, floors, roofs). Topics covered include stairs, installation and trim of windows and doors, installation and repair of gypsum wallboard, advanced site layout, exterior finish work, thermal and moisture protection, and an introduction to welding. This course gives students a substantial skill and knowledge foundation typically required for apprentice carpentry.

In addition, students will apply skills to real-life situations. They will build and construct projects around campus for campus improvement that teaches students about construction concepts. This year we will be using Google Classroom and other online platforms. Information about the other learning platforms will be shared via class time, email or zoom.

**Course Policies**

\*Attendance and punctuality are of utmost importance as a workday on a project cannot be redone or made up like class room assignments on paper.

\*Old shoes and clothes are a must in this class as working on hands on projects can ruin school clothes and shoes.

\*Safety is of utmost importance so that there are no injuries. Knowledge of proper safety will be taught. Students must have proper conduct and attitude towards safety or they will not be allowed to participate in the shop projects which will result in failure of the class.

**Tardy Policy**

Consistent with WHS policy.

**Assessments and Grading**

Grading will be done mostly by performance evaluation.

\*Daily grades will be evaluated by student’s class participation on projects.

\*Test grades will be evaluated by student’s quality of work performance.

Written test will contain multiple choice and math problems associated with construction projects.

Your grade will be calculated as shown below:

Grading formula for each 9-week’s grade:

Class Participation & classwork 40%

Assessments and Tests 40%

* Tests
* Projects

Final 20%

**Course Topics and Schedule by Semester**

|  |  |  |
| --- | --- | --- |
| **Week** | **Semester 1** | **Structural systems II** |
|  |  | Safety |
|  |  | Safety |
|  |  | Pylons tools and safety for those tools |
|  |  | Pylons tools and safety for those tools |
|  |  | Permits for projects |
|  |  | Loads on walls, framing for walls, and how to finish walls |
|  |  | Moisture, drainage |
|  |  | Moisture, drainage |
|  |  | Roofing |
|  |  |  |
|  |  | Roofing |
|  |  | Interior wall finishing |
|  |  | Interior wall finishing |
|  |  | Doors, windows and trim |
|  |  | Doors, windows and trim |
|  |  | Green building concrete |
|  |  | Specs on concrete and drawings |
|  |  | Organizing time and layout |
|  |  | End of semester report on projects |
|  |  |  |

|  |  |  |
| --- | --- | --- |
| **Week** | **Semester 2** | **Structural systems ii** |
|  |  | Safety |
|  |  | Safety |
|  |  | Pylon tools and safety for those tools |
|  |  | Pylon tools and safety for those tools |
|  |  | Permits for projects |
|  |  | Loads on walls, framing for walls, and finishing walls |
|  |  | Loads on walls, framing for walls, and finishing walls |
|  |  | Moisture, drainage, and insulation |
|  |  | Moisture, drainage, and insulation |
|  |  | Roofing |
|  |  | Roofing |
|  |  |  |
|  |  | Interior walls and finish |
|  |  | Interior walls and finish |
|  |  | Doors and windows |
|  |  | Finish trim |
|  |  | Green building concrete |
|  |  | Specs and drawings for concrete |
|  |  | Organizing time and layout |
|  |  | End of semester report on projects |
|  |  | End of semester report on projects |
|  |  |  |