

## Syllabus

Taylor Road MS Course: Engineering Grades 6,7 &8

Teacher: Jeff Aiken [aikenj@fultonschools.org](mailto:aikenj@fultonschools.org)

Textbook: None Replacement Cost: None

Course Description: The goal of this course is to inspire students to consider one of the many exciting careers in engineering as a profession. To do so, students will work in teams to complete hands-on activities and projects to learn basic engineering concepts. Students will study the engineering design process, build prototypes, and integrate technologies to form a working system. 7<sup>th</sup> & 8<sup>th</sup> grade projects could include Bridge Building, Energy and Environment experiments, Creating automata mechanical toys, Block coding for Sphero robots, etc. 6<sup>th</sup> graders will use the Tinkercad design tool and the VEX Virtual Robot to give students these experiences. Course Practices: None Course Tools/Materials: (1) computer mouse for Tinkercad and Virtual Robot and (2) pencil, pen, scissors, tape (office or shipping), paper clips, rubber bands, glue, file folder or card stock (or cereal box) for Skimmer Grade Determination:

Summative- may include such assignments as: completing assignments and building a digital portfolio

Formatives may include such assignments as: daily assignments

Grading Scale: Grades are based on the student's mastery of standards.

A student's final course grade for the marking period is equal to the average of the grades completed. A student must complete 80% of graded assignments to earn a numerical grade in their course, otherwise the student earns an Incomplete. End of Semester grading will reflect the following: A = 90 and above B = 80-89 C = 70-79 F = 69 and below OR an Incomplete not resolved by the end of the school year or summer. I = Incomplete (Less than 80% of summative assignments were completed.)

Make Up Work: A student is permitted and encouraged to make up work missed because of absences. It is the student's sole responsibility to contact the teacher(s) to initiate all make-up work. The teacher will establish a reasonable schedule within which the make-up work will occur. Office Hours/Help Sessions: Help sessions will be held during Teacher Office Hours while in URL.

### **Recovery Policy:**

All students will have one opportunity each 9 weeks to redo/retake one major assignment/assessment.

-Eligibility for a redo/retake is for students who receive a 79 or below on a specific major assignment/assessment.

-Students are eligible to earn a replacement grade on a redo/retake no higher than 79.

-Student redo/retakes must be completed before the next major assignment/assessment is given or five school days before the end of a marking period if there is not another major assessment/assignment given (exceptions can be made for students who have excused absences during this five-day window).