

Technological Systems
8th Grade
Teacher: Ed Clawson

COURSE SYLLABUS 2022-2023

E-Mail: clawsone@fultonschools.org

Help Session/Office Hours:
8:25 -8:55 and 4:00 – 4:25 by appointment only

COURSE DESCRIPTION:

The goal of this nine-week course is to introduce students to systems and process to develop an understanding of the impact of technology on human, the environment, and the global community. Technological Systems is designed to reinforce the areas of math, science, social studies, and language arts through practical application and/or hands-on activities. Students will be given exposure to careers related to Engineering & Technology. This course will emphasize the value of good work-place ethics and introduces the concept of leadership skills development.

COURSE OUTLINE:

Accommodations and modifications will be made according to the student's needs

Classes will be structured using the *Georgia Performance Standards* which are listed below.

1. Students will demonstrate employability skills required by business and industry.
2. Students will demonstrate proper safety techniques and tool usage in the Engineering and Technology Laboratory.
3. Students will Identify engineering and technology and its impact on society.
4. Students will Apply the Engineering Design Process to generate a solution to hands-on design challenges.
5. Students will Examine and research careers in fields related to engineering & technology
6. Students will Explore how related career and technology student organizations are integral parts of career and technology education courses. Students will develop leadership, interpersonal, and problem-solving skills through participation in co-curricular activities associated with the Technology Student Association.

GRADING PROCEDURES:

Grades are reported every 4 1/2 weeks and are a culmination of the following:

50 % - Major Assessments - Major projects or performance tasks that are cumulative and demonstrate mastery of learning targets from multiple standards or skills.

40 % - Minor Assessments – Assignment or assignments like labs or minor projects assessment that measures an individual learning target, standard, or subset of learning targets/standards/ skills within a unit

10% - Practice - Assignments, observations, and/or engagement activities given in class or for homework to build pre-requisite skills, measure progress towards mastery of a learning target or standard, enrich, and/or remediate skills.

Late work policy: If a student is absent, it is his/her responsibility to get the information missed upon return to school and complete the assignments. Students are given one day for each day absent plus one day to complete the work. Failure to gather or complete the assignments may result in a zero for missed work. Late assignments will be graded according to the AMMS grading policy which states: 10% off per day. Zero points after unit completion. Guidelines listed on page 6 of the AMMS Student Handbook and Agenda.

Recovery Policy: 75% maxim grade for successfully completing a recovery assignment that demonstrates mastery of the standard. Guidelines listed on page 7 of the AMMS Student Handbook and Agenda.

BASIC CLASSROOM PROCEDURES AND EXPECTATIONS:

****SEE HANDBOOK FOR FUTURE PROCEDURES AND EXPECTATIONS****

1. Be on time to class.
2. Bring agendas, pencils, and iPads to class daily.
3. Participate in all classroom activities.
4. Maintain an open, positive attitude about all types learning activities.
5. Show respect to your fellow classmates, teacher, and the equipment and materials in the classroom
6. Be an active participant in class activities and group projects.
7. Strict adherence to all rules as they appear in the student handbook.

All rules and behavioral expectations listed in Fulton County Code of Conduct handbook will be in force for both face to face and virtual learning environments. *****SEE HANDBOOK FOR FUTURE PROCEDURES AND EXPECTATIONS*****

GUIDELINES FOR SUCCESS:

Be Respectful Be Responsible Be Employable Be Safe

Please review the syllabus and the information below with your parents or guardian.

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Dear Parent,

I love teaching engineering and technology to middle school students. I must have said “I have the best job in the world” a thousand times, throughout my eighteen years of teaching. This is very much a “hands on” course. Students will be given opportunities to problem solve, create, design, and build. I very strongly believe that teaching basic engineering concepts in a project-based learning environment with a significant emphasis on the development of problem solving skills, will help prepare students for many of the challenges and job opportunities that are ahead of them.

Please feel free to email me with any comments or concerns that might help me to provide your son or daughter with a more positive experience in my classroom.

If you or your spouse have a career as an engineer or work in any technology related field, the students and I would love to invite you to come into the classroom and share your experiences and insight. Hearing a first-hand account of a real-world challenges can have a significant impact. Many students at this age are just beginning to discovery what their true interests are. Please let me know if you would like to contribute a little bit of your time or to further discuss other opportunities.

Sincerely,

Ed Clawson
AMMS Engineering Instructor
Technology Student Association Advisor
FIRST Robotics Coach
VEX IQ Robotics Coach
Drones for Good Coach

Please check the box if you are interested in exploring the possibility of sharing your experiences in our classroom.

I have read the Technological Systems syllabus and understand the requirements and expectations for success in Mr. Clawson’s class.

Student Name Printed:

Student Signature:

Date:

Parent Name Printed:

Parent Signature:

Date:

Parent Contact information:

Phone number:

Email: