

ENGINEERING AND TECHNOLOGY PATHWAY

Syllabus for All Courses - Room 406

Christie Schmitt

The Engineering Pathway consists of 3 courses taken in sequence over a three-year period and culminating with an End of Pathway test. This syllabus will serve as a syllabus for each of the three years. Below you can see each year, as it pertains to you/your student.

GRADUATION CORD FOR PATHWAY COMPLETORS

Pathway Completers have the opportunity to earn a cord at the end of their course pathway. Below are the requirements to obtain an honors cord

- Pathway completer in a CTAE course
- Maintain a 3.0 in the CTAE course

COURSE INFORMATION

Year	Remind Signup		
1st Year Foundations of Engineering	<ul style="list-style-type: none">• Design Notebooks• Careers/Disciplines• History of Engineering• Sketching/Modeling• Engineering Design Process• Safety	<ul style="list-style-type: none">• Structural design• Solid Modeling• Robotics• STEM in the Real World• Basic Electronics	Text the message @olafet to the number 81010 .
2nd Year Engineering Concepts	<ul style="list-style-type: none">• OSHA Safety• Advanced Programming• AutoDesk Inventor Assemblies• Career / Mock Interviews• Manufacturing• Fluid Systems	<ul style="list-style-type: none">• Social Media and Design• Innovation versus Invention• Design projects• Electronics• Programing	Text the message @olaec to the number 81010 .
3rd Year Engineering Applications	<ul style="list-style-type: none">• Design Project – Light fixture• VEXIQ and Programming• Safety• Electronics• Material Strength	<ul style="list-style-type: none">• EOPA Game Design and 3d Modeling• Rube Goldberg• Career / Mock Interview	Text the message @olaea to the number 81010 .

GET INVOLVED

TSA – TECHNOLOGY STUDENT ASSOCIATION

The mission of TSA is to prepare its membership to be successful leaders and responsible citizens in a technological society through co-curricular activities within the engineering program; which include communication, leadership, and competitive skill development.



For more information, visit:

<http://olaengineering.weebly.com/tsa.html>

VEX ROBOTICS

In the VEX Competitions, teams of students are tasked with designing and building a robot to play against other teams from around the world in a game-based engineering challenge. Tournaments are held year-round at the regional, state, and national levels; local champions go on to compete against the best in the world at VEX Worlds each April!

For more information visit:

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GRADING AND MATERIALS NEEDED

Grading Scale

Area	Percentage
Assessments/Projects	40%
Daily Work	40%
Final Exam	20% (end of semester)

Required Materials

Composition notebook
Pen
Pencil

OTHER INFORMATION

TEACHER WEBSITE - Please visit my website regularly for information regarding class activities, announcements, homework, etc. It will provide you with a wealth of information as well as information about the current activities and assignments we are working on.

LAB SAFETY - The Engineering classroom has tools and equipment that can pose a dangerous situation if students do not exercise lab safety. Any students who demonstrates unsafe behavior will be removed from the activity and lab area and given a zero on the assigned task or project.

REMIND - You will receive notifications about when we change activities or new things are happening in class.

CELL PHONES - Cell phones and other electronic devices are not allowed in the Engineering classroom.

5P's – Always display the 5P's - Polite, Positive, Prepared, Productive, and Prompt

LATE WORK – Work will not be accepted after the 9 weeks period. Students are given 2 (I forgot to) freebee assignments. Assignments beyond the 2 will be accepted but for 70 credit.

SYLLABUS SIGN OFF

I am excited to be your teacher this year. Parents, please feel free to contact me my email address is Christie.Schmitt@henry.k12.ga.us. Please complete the syllabus signoff on my website and make sure you have signed up for Remind. This will count as the first work ethic grade for the course.