

AUTOMATION & ROBOTICS (AR)



Dear Students and Parents,

This letter is to welcome you to the PLTW Automation & Robotics courses at Ankeney Middle School and to inform you of the expectations that your child will be following throughout the semester. We are excited to be partnering with the Greene County Career Center on this initiative. Building an engineering pathway for our students at Beavercreek is a key goal with this program. The career center completed a market analysis for our area and the results revealed the need for engineering, manufacturing, and IT trained workers to sustain our local economy.

PLTW is the nation's leading science, technology, engineering, and math (STEM) solution in over 5,000 schools across the United States. PLTW AUTOMATION & ROBOTICS will be covering what is automation and robotics, mechanical systems, and automated systems. The course will use the engineering design process to identify the problem, create ideas, select a solution, build the item, evaluate the results, and present the results. The class will be student driven where each individual will learn to fail forward, take risks, and fix errors in the system.

PLTW Flight Space and Automation/Robotics will be a trimester course. The ending dates of each trimester are as follows:

Trimester 1 starts August 15
Trimester 2 starts November 12
Trimester 3 starts February 25

You can find more information about PLTW at <https://www.pltw.org/about-pltw>.

Classroom Rules/Expectations:

- 1) **We RESPECT each other**
- 2) **We try our BEST**
- 3) **We are a TEAM**
- 4) **We LEARN from our mistakes**
- 5) **We CREATE**
- 6) **We CELEBRATE each other's successes**

All School Rules/Consequences in the Handbook Apply

Rewards: Students that work well in class will achieve the reward of an excellent grade. You may also have the privilege of doing additional projects to enhance the learning experience

Grade Boundaries: 90-100% A, 80-89% B, 70-79% C, 60-69 % D, Below 60% F

Grading System: Students will be graded on the following items:

- 1) **Active Participation (Daily Grades)**
- 2) **Tests/Quizzes**
- 3) **Projects/Assignments**

Late Work Policy

Up to 2 days late = 80% credit

After 2 days late the assignment will not be accepted for credit

Field trip

To help students connect concepts taught in class to real world applications, we will take them on a field trip during the trimester. If you are interested in chaperoning the trip, please email me.

Thank you for your assistance and I encourage you to become involved in your child's education throughout this year and look forward to an open channel of communication between us.

Matthew Lockwood

Email: matt.lockwood@gocreek.org

Website: <https://sites.google.com/beavercreek.k12.oh.us/lockwood>

