WINDOW ROCK HIGH SCHOOL

Name of Course:  **Robotics**

School Year:  **2024-2025**

#### Teacher:  Mrs. Farnsworth Room B-16       Email address:  clfarnsworth@wrschool.net

***Phone number***:  928-729-2006 EXT 1111

I.   ***Required Materials***

Each student must have a folder for Robotics. All of the student’s work should be ordered by date and kept in the folder.  **Students must bring their folder to class every day.**   Students will also be keeping an Engineering log which will be kept in the classroom.

II.   ***Assignments***

It is the responsibility of an absent student to check my teacher website to see the weekly deadlines.  Missed work must be made up within a week.  Messy or incomplete work will not receive credit. It is the student’s responsibility to make sure that his/her work is presentable and completed as instructed. This is a hands-on course; students will be building robots in partners so regular attendance is essential.

III.   ***Grading Policy***

Grades will be based on participation in class (50%), Performance Tasks (40%), and Final Summative (10%).  Participation and performance in competitions is reflected in the grading.

***Grading scale***

A         Excellent!                     90–100%

B         Good!                            80–89%

C         Satisfactory                   70–79%

D         Needs improvement      60–69%

F          Not achieving                0–59%

IV.   ***Course Sequence*** (This is a guide, and may not be followed exactly!)

Building Robots

*High Stakes* game rules and in-class competitions

Modifications to robot to optimize competitiveness

Learning to Code

Programming Movement with robots negotiating mazes

Competitions

* competing in the VEX *High Stakes* game
* 1st competition will be in November 2024

Sensors and Programming

* Physical Robot
* Virtual Robot

Programming robots for the autonomous part of competitions

Careers in Robotics

                ·  **Behavior Expectations (Refer to the following matrix.)**

