

Harbor Springs High School
Robotics
Room 212

Instructor

Mr. Schultz

- I am available before school, after school, or during lunch for additional help

Materials

- We will be using Lego Robotics kits as well as VEX Robotics kits
- Calculators will be available if you do not have access to one
- Please bring proper materials everyday (pencil, paper, and calculator)

Course Description/Objectives

Throughout this year this course we will be discussing and exploring the principles of basic robotics. The assessment of this course will be done through participation, activities and challenges, , and attendance.

Course Topics

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|----------------------------|--------------------------------------|
| 1. Motors | 6. Lift Systems |
| 2. Sensors | 7. Remote Control |
| 3. Mechanical Construction | 8. Autonomous Control |
| 4. Drivetrains | 9. Programming |
| 5. Gearing | 10. Practical Applications of Robots |

Course Procedures & Policies

Attendance

- Each day you will receive five points for attendance
- If you are absent for any other reason than a school related event, you will receive 0 points.
- IF YOU ARE LATE, you will receive at most 3 of five possible points. If you are late you must sign in when you enter class. Class should not be disrupted because of a late arrival.
- If you miss school, you may make up time before school.

Activities and Challenges

- These will be done in most cases at least once a week.
 - Some will be longer and worth more points and some will be shorter and worth less points
 - Your grade will be based on functionality and performance. Sometimes you will be completing a task and other times you will be competing against others.
- Safety is a priority with this class. Unsafe practices will result in a loss of credit.

Workspace Organization

- Throughout the duration of this class we will be working with many small parts and tools. Many of these are expensive to replace. Your organization of your work area will help you be successful. If you lose things and they need to be replaced your grade will reflect that. Things should be picked up and put away at the end of every class period.

Missed Assignments:

- You have one week to make up missed assignments after that they become a permanent zero.
- You are responsible for finding out what you missed and making it up.

Academic Dishonesty:

- Cheating will not be accepted, if anyone is caught cheating on a test they will receive 0 points.

Grading:

- I give everything back the next day with a grade. You should know your standing in the course and are responsible for looking at Power School.

100-94%	A	76-73%	C
93-90%	A-	72-70%	C-
89-87%	B+	69-67%	D+
86-83%	B	66-63%	D
82-80%	B-	62-60%	D-
79-77%	C+	59-0%	F

Activities & Challenges	70%
Workspace Organization	10%
Attendance	20%

General Procedures:

- We will be adhering to all Harbor Springs High School Handbook and Code of Conduct.
 - Students may not bring back packs, side packs, fanny packs, drawstring bags, or large purses in your rooms.
 - Students may not have phones in the academic wing
 - i. They will be confiscated on the first offense.
 - Students may not be in the academic wing during their scheduled lunch without a pass from you. They will not be allowed to take food into that area.
 - Students will not have computers out unless we are working with them. If I have to tell you to put your laptop away, you will lose participation points.
 - Students may not eat or drink anything but water in your classrooms
 - Students may not wear hats or coats in your rooms
 - Students will adhere to the HSHS dress code
 - I expect a respectful environment in my classroom.
 - When someone else is talking, you are not.
 - If someone needs help, you assist him or her in anyway possible.
 - You are going to work with others, and you will learn to do so in a professional, respectful manner.
 - Violence and/or bullying of any kind will not be tolerated.
 - Respect this facility and the furnishings. I do not want to see desks and wall defaced.
 - It is a privilege to be in this class, please treat it that way.
 - If you know you are going to need to leave the room before the end of the hour, please let me know before the start of class.
 - I am always open to question and concerns, feel free to approach me if you have a problem.
- Things on this syllabus are subject to change without notice.