

## Robotics 1 Disclosure

Period 1 A-Day, Period 5 B-Day

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### Introduction

Robotics is a lab-based, hands-on curriculum combining electrical, mechanical and engineering principles. Students will learn to design, build, program, and control robotic devices. A rigorous study and application of electrical concepts will include: sources of energy, electrical safety, use and identification of basic electronic components, sensors and actuators. Engineering concepts will include: mechanical design, prototype development, design testing, programming, and proper engineering documentation.

### Supplies

Each student will need to provide:

- A BASIC scientific calculator or a smartphone app
- Pen or pencil and a good eraser
- Engineering notebook for taking notes and documenting projects in class (provided by the teacher)

### Fees

The fee for this class is \$15.00. It covers consumable materials, engineering notebook, and shop supplies. It can be paid online or in the main office.

### Expectations

- o Be safe = Students are expected to follow all safety rules in the shop and classroom.
- o Be on time = Students are expected to be on time to class and ready to work.
- o Be respectful = Students are expected to show respect for learning and individuals.
- o Be in the moment = Students are expected to avoid distractions like cell phones, and focus on the task at hand.

### Citizenship /behavior

- |   |  |
|---|--|
| H | No tardies, obeys class standards, shows leadership, and participates in class.<br>Has no more than one tardy and obeys class standards. |
| S | Has no more than two tardies and usually obeys class standards.  |
| N | Has no more than three tardies and/or frequently disobeys class standards.   |
| U | Has four or more tardies and/or frequently disobeys class standards.   |

Citizenship grades may not be "made up."

**Davis School District does not discriminate on the basis of race, color, religion, sex, age, national origin, or disability.**

Everyone starts out with a citizenship grade of a “S”, an “H” is reserved for exemplary work and attitude in class.

Students with persistent behavioral problems will receive due process interventions. Students need to stay current with their work at all times.

### **Grading expectations and policies**

Class attendance is critical to success. This is a competency based class. Students who need extra help or time in the shop can come during tutorial.

### **Evaluation**

All students are required to pass the Safety Test in Canvas with 100%. This test can be taken as many times as necessary to achieve 100%. There will also be quizzes throughout the class related to specific topics or units. ***There is a State Skills Test that all students are required to take at the end of the semester. This test will count on your grade for 2nd quarter.***

### **Performance Rating Scale: (this is the score you will see on your projects, quizzes, tests I have graded)**

10= Highly skilled	Successfully demonstrated without supervision.
8.5= Moderately skilled	Successfully demonstrated with limited supervision.
7.5= Limited skilled	Demonstrated with close supervision.
6.5 = Not skilled	Demonstration requires direct instruction and supervision.

### **Grading Standard: (this is the score you will see in the gradebook on My Student)**

A	93 – 100%	B	83 – 86%	C	75 – 76%
A-	90 – 92%	B-	80 – 82%	74% and lower must be redone	
B+	87 – 89%	C+	77 – 79%		

Any assignment, quiz, or exam scored at 6.5 (74%) or below has not been mastered. These activities will need to be redone or improved to reach the expected mastery level. Other assignments may be redone as well. Ask me for details as each assignment has different expectations. No work will be accepted the last week of the quarter.

### **Guest Speakers/Field Trips**

There are several possible guest speakers, and there may be a possible field trip during the year. Specific dates and locations are TBA. Guest speakers will be chosen from local industry partners and higher education institutions. A permission slip will be required for the field trip, and will be sent out electronically to parents.