Midland High School **Robotics Syllabus** **2025 - 2026**

Course Overview

Welcome to Robotics (cross-enrollment of Engineering Design and Presentation I, Robotics I, and Robotics II). Through this course you will learn about both the technical engineering process and develop soft skills related to project management, communications, team work and safety. The course is project based with a focus on building a robot to compete in the First Tech Challenge. As such, you will be expected to participate in the local league competitions and attend biweekly lunchtime meetings with our industrial mentors.

Contact Information

Mr. Robert Pinnick Rm 608 Email: Robert.Pinnick@midlandisd.net

Tutorial Times	Monday	Tuesday	Wednesday	Thursday	Friday
Before School (8:10 – 8:35)		Y			
Lunch (1:40 – 2:20)	Y		Y	Y	
After School (4:15 – 4:50)	Y	Y			

Required Supplies - None

Classroom Expectations

It is important that the classroom environment be one that is conducive to learning for all students. The following expectations that I have for all my students: be safe, be respectful, be responsible, be present, be prepared, and participate.

Students are expected to follow classroom routines. Students are expected to follow all MHS policies as well. MHS policies include:

- Water only. All other food or drink is prohibited in the classroom.
- No electronic telecommunication devices during the instructional school day. Failure to adhere to the policy will result in administration confiscating your device. You may collect your device from the administration after paying the fee.

Failure to meet expectations or following classroom routines may result in disciplinary actions according to the MHS Disciplinary Matrix.

Attendance Policy

Regular attendance is essential in a project and team-based class. In addition, students will be expected to attend the local league competitions (full day on Saturdays). The competitions will be on the following dates:

- Pre-Season Scrimmage — October 25th 2025
- 1st Season Match — November 15th 2025
- 2nd Season Match — December 13th 2025
- 3rd Season Match — January 17th 2025
- Local Championship Match — TBD (February)
- Regional Championship Match — TBD (if team advances from local)
- State Championship Match — TBD (if team advances from regional)
- World Championship Match — TBD (if team advances from state)

We will have biweekly meetings with our industrial mentors at lunch which students are expect to attend.

Learning Objectives

Students will design and build a robot to compete in First Tech Challenge (https://www.firstinspires.org/robotics/ftc). While a cross-enrollment class, the courses have overlapping learning objectives. All sections will cover the technical engineering process and develop soft skills related to project management, communications, team work and safety.

The Engineering Design & Presentation I students will have additional emphasis and work on engineering documentation and computer assisted drawings (CAD).

The Robotics I students will have additional emphasis and work on mechanical engineering aspects of the design.

The Robotics II students will have additional emphasis and work on the electrical engineering and programming aspects of the design.

In addition, educational pathways and careers in engineering will be discussed.

Specific learning objectives will be posted in Google classroom.

Course Resources

Google Classroom: All resources will be posted in Google Classroom.

Grading Policy

In accordance with MISD grading policy:

The semester grade will be assigned according to the following:

A: 90% - 100% B: 80% - <90% C: 70% - <80% F: <70%

The semester numerical grade will be an average of three 6-weeks grades (28.3% each) and the final (15%). A 6-weeks grade will be 40% formative assessments (minor grades) and 60% summative assessments (major grades). The minor grades will be based on weekly progress reports. The major grades will be based on key milestones in the engineering process and course specific projects.

Communication

Please make sure parent information including email and phone numbers are up to date in Skyward. Email will be the main form of communication for this classroom. You will also receive announcements via text from Blackboard.

Please reach out to me if you have any questions or concerns. I am excited to work with you to make this a successful year of learning.

Please fill out the portion below and return this portion to your teacher.

We acknowledge that we have read and that we understand the expectations in Robotics. We agree to contact the teacher should we have any questions or concerns regarding this instructional plan.

Student Name: _____

Student Signature: _____ Date: _____

Guardian Name: _____

Guardian Signature: _____ Date: _____

Guardian Preferred Contact: E-mail, Skyward, Phone Call, Text Message

E-mail: _____ Phone Number: _____