**Robotics I & Robotics II**

**Campus**: Jim Ned High School **Year:** 2025 – 2026

**Teacher:** Mrs. Amie Miller **Conference:** 6th period 1:05-1:54

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**Please keep this page in your notebook all year… You will be responsible for knowing this information all year long.**

**Recommended Prerequisites:** Principles of Applied Engineering

**Course Description:** In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry. The end goal is that students gain sufficient knowledge of the scientific & engineering practices across the disciplines of science to make informed decisions using critical thinking & scientific problem solving.

**Course Outline**

Professional Standards & Employability Skills

Success in Technical Careers

Teamwork: Project Roles & Responsibilities

Project Management

Safety & Equipment

Robotic Products, Process & Systems

Engineering Principles & Fundamental Physics

Engineering Components

Engineering Design Process & Methodologies

Equipment & Automated Systems

Design Methodologies: Building Prototypes

**Grades:**

* There will be a minimum of 2 grades per week taken each 6 weeks. Grades will be put into Ascender in a timely manner. ***Please check your grades on a frequent, regular basis.*** 

Late work and make-up work will be given at teacher discretion.

**Tests (40%)** There will be a minimum of 2 test grades per 6 weeks.

**Labs, Projects & Notebook Checks (25%)** Labs & projects are a crucial component of understanding concepts. Due dates will be given at the start of the lab, project, or notebook check. Be sure to get the assignment in on time for maximum credit.

**Quizzes (20%)** Quizzes will be given periodically. This includes announced quizzes and unannounced (pop) quizzes. Please pay attention when instructions &information are given & be prepared for either.

**Daily work (15%)** Homework & Daily entries will generally fall under daily work.

**Late work & Corrections**: Turn work in on time and do assignments with the highest quality possible. However, I understand that life happens and things get missed from time to time but ultimately, acceptance of late work and the opportunity for corrections on an assignment is up to the teacher’s discretion. Each will result in a lowered grade from the highest original grade possible. Highest possible grade on late work is a 70. Corrections will vary depending on the nature of the assignment.

**Absences & Make-up work:** You are responsible for getting and turning in missed work. For some assignments an alternative assignment, assignment date or an “exempt/no grade” may be given for a missed assignment.



**Tutorials:**

Campus times: Monday - Friday 7:45 am – 8:05 am & 3:45 pm – 4:00 pm

\* Wed. AM (no tutorials) \*\*Safest bet: Schedule tutorials & extra build meetings ahead of time.\*\*\*\*

**Expectations:**

* Be polite & respectful. Being disrespectful to anyone including peers is not acceptable.
* Bullying will absolutely not be tolerated. We will have fun together and learn from each other but not at the expense of others!
* Passing period is for breaks and using the restroom. Do what you need to but don’t be late to class. You are only given a limited number of trips out of the classroom so use them wisely.
* Teacher & parents will communicate regularly and when needed.
* This class is not designed and structured like a typical class. There will be a lot of exploration and freedom in our day to day week to week activities. Everyone is expected to do their part in the team. Your grade depends on it.

**Policies:**

**Electronic devices**: (including but not limited to phones, headphones, earbuds, ipods, ipads, smartwatches, etc.) You will be expected to put them away while ON CAMPUS.

**Chromebooks:** Bring school-issued Chromebook with you every day charged & ready to use. It is a good idea to label your charger and have it with you at school as well.

**Participation:** Participation is expected in ALL activities. We do a lot group work in this class. Failure to

comply may result in a lowered grade or even a zero.

**Tardies**: After my classroom door is shut, you will be considered tardy.

**Academic Misconduct**: Cheating will not be tolerated. Cheating will result in a zero. It will be noted in Ascender. Helping someone cheat or using AI when not given permissions is cheating also. Please be a person of integrity, don’t cheat.

**Lab Expectations**: Please take care of all equipment. NO HORSEPLAY IS ALLOWED IN THE LAB AREA. This is for your safety and the safety of others. See additional Lab Safety.

**Supplies:**

□ Pencil □ Pens □ 1 Composition notebook

□ 1 Pocket folder with or without brads OR a 1.5 in 3 ring notebook, any color

Please return *asap* but no later than WED., Aug. 20th, 2025.

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STUDENT *Printed* Name STUDENT SIGNATURE DATE

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PARENT *Printed* Name PARENT SIGNATURE DATE