



# Chandler Unified School District

EGR730 Engineering – Automation and Robotics  
SY 2023-24



## Course Overview

### Course Description

This course introduces Automation and Robotics. Students will collaborate to build mechanisms with VEX parts and use them in Design Challenges, learn computer programming with RobotC, and accept challenging projects that connect VEX builds to RobotC.

### AP/IB/Dual Enrollment

No

### Prerequisite/Fee(s)

None

### Course Materials

- Composite Notebook with 1/4" graph paper
- Mechanical Pencil
- Colored Pencils
- Plastic Ruler

### Adopted Resource(s)

Teacher Provided

*\*An asterisk will indicate a resource containing sexually explicit materials per legislative definitions. CUSD has determined that all resources listed above are of exceptional educational value.*

## Site and Faculty Information

### School name and address:

Camille Casteel High School, 24901 S Power Rd, Queen Creek, AZ 85142

### Building principal:

Jayson Phillips  
phillips.jayson@cusd80.com

### Teacher:

Paul Keith BS & MEd  
keith.paul@cusd80.com

**Office hours:** Thursday 2:30 to 3:00 pm or upon request

## Course Access

This course is taught in-person at Camille Casteel High School. Students will have access to the curriculum and instruction in the classroom. Google Classroom is the primary location for students to access material when absent from classes taught in person.

## Help

### Academic Support

- Contact the teacher to schedule an appointment during office hours
- [Ed Tech](https://cusd80.com/Page/45109) support for students, parents/guardians, and community link ([cusd80.com/Page/45109](https://cusd80.com/Page/45109))

### Mental Health Support

- CUSD mental health support [cusd80.com/Domain/10528](https://cusd80.com/Domain/10528) or 480-573-8808 (talk or text)
- Suicide & Crisis Lifeline: 9-8-8 hotline

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- 24-hour Crisis Line Talk: 602-222-9444, Text: 741-741

## Student Conduct, Success, and Responsibilities

### Student Handbook

Students must follow the policies and procedures established in the Student Handbook. Copies of the handbook can be found at [cusd80.com/handbooks](http://cusd80.com/handbooks). Printed copies will be provided upon request.

### Student Responsibilities

- Punctual - be to class on time
- Be respectful and BE KIND to others
- Be prepared and participate every day (don't be a fly on the wall)
- Complete sentences with meaningful answers – I expect your best and this is one way to show it.
- Be leaders not followers
- Use cell phones only for school related activities (this is a privilege that can be lost)
- Only use the computers for school related activities (No games unless granted permission)
- Use the bathroom only when needed and sign-out (another privilege that can be lost)
- Take care of the school and everything in it (be responsible)
- Check your grades frequently-if you have missing assignments, make them up.

### Late work

All classwork is required to be completed and turned in on time. Late homework will be marked off, 25% off for 1 day late and 50% for 2 days late. If a student has an excused absence, it is his or her responsibility to make up any work that was missed. Missed warm-ups can ONLY be made up during lunch. The daily warm-ups are not posted online. The student will have one day for each day that they are absent to make-up the work they missed. If the student was present when an assignment was given, but absent the day the assignment is turned in, the assignment will be due the day the student returns to school. If a student is absent for an extended period of time, accommodations will be made.

## Assessments and Assignments

Students will complete assessments during each unit of study to assess their understanding. Students will complete the CUSD Common Final at the end of the first and second semesters. The Common Final will count for 20% of the student's final semester grade in grades 9-12 and 10% in grades 7-8 (some exceptions may apply at the Junior High level). Common finals will be in ELA, Math, Science, Social Science, and World Language.

Final exams will be given during the CUSD Jr High/High School Early Dismissal days in December and May, as identified on the [District Calendar](#).

If students are requested to participate in a survey, the survey questions will be provided to parents/guardians seven days before student contact.

## Grading

### Grade Percentage

A	B	C	D	F
90% - 100%	80% - 89%	70% - 79%	60% - 69%	<60%

### Quarter grades

Grades consist of a combination of warm-ups, homework, quizzes/tests, lab reports, projects, notebook checks, and in class work. Along with these, students are graded on participation. The grade begins when the student enters the class and ends when they leave. The students will be graded on effort, attitude, activity participation, and clean-up.

### Semester grades

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Semester grades are calculated using 40/40/20: Each quarter accounts for 40% of the semester grade and the final exam accounts for the remaining 20%.

## **Units of study**

### **Units for EGR730 Engineering – Automation and Robotics**

History and influence of Technology, Automation and Robotics, and Robotics

Mechanical Systems and Energy Transfer

Robotics Real World Designs

Automated Systems

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## EGR730 Engineering – Automation and Robotics

### SY 2023-24



**Site:** Camille Casteel High School  
**Building Principal:** Jayson Phillips, phillips.jayson@cusd80.com  
**Teacher:** Paul Keith, keith.paul@cusd80.com

## Parent/Guardian

### Acknowledgment

Parents/Guardians should indicate if they “Acknowledge” or have a “Potential Conflict” with their student’s participation in the following units by checking the appropriate box for each unit of study listed. Students cannot opt out of a standards-based unit. Marking “Potential Conflict” will prompt the teacher to make contact regarding assignment alternatives.

Unit of study	Acknowledge	Potential Conflict
History and influence of Technology, Automation and Robotics, and Robotics		
Mechanical Systems and Energy Transfer	<input type="checkbox"/>	<input type="checkbox"/>
Robotics Real World Designs	<input type="checkbox"/>	<input type="checkbox"/>
Automated Systems	<input type="checkbox"/>	<input type="checkbox"/>

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**By signing and returning this form**, the parent/guardian acknowledges they have reviewed the resources and units of the study included in the syllabus.

- As the parent/guardian, I understand that I may contact the teacher if I have questions about the resources, content, or units of study.
- As the parent/guardian, I understand I can check my student’s grades in Infinite Campus anytime during the school year.

Student name (printed)

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Student signature

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Parent/Guardian name (printed)

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Parent Signature

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Date

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***Please return this page to your student’s teacher.***