



Chandler Unified School District

SCI400A Physics
SY 2023-24



Course Overview

Course Description

This lab-oriented course studies energy in its many forms. Topics include constant velocity and acceleration, static and dynamic uses of forces, two-dimensional motion, uniform and circular motion, universal gravitation, work and energy, impulse and momentum, and waves. Students will apply various math skills.

AP/IB/Dual Enrollment

No.

Prerequisite/Fee(s)

Geometry and Biology. Grade 10 or higher.

Course Materials

Folder designated for Physics

Graphing Calculator

Notebook for labs, notes and sometimes you will want to tape or glue pages from class into it. (You can use this for studying and on tests)

Pencils

Colored Pens, highlighters, or colored pencils (marking different forces with different colors helps them stand out)

Adopted Resource(s)

Physics (Walker) -James S Walker (Savvas).

**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:

Benjamin Wilson BS Science

wilson.benjamin@cusd80.com

Office hours: Tutoring available before and after school on Mondays, Wednesdays, and Thursdays

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

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- [Ed Tech](#) support for students, parents/guardians, and community link (cusd80.com/Page/45109)

Mental Health Support

- CUSD mental health support cusd80.com/Domain/10528 or 480-573-8808 (talk or text)
- Suicide & Crisis Lifeline: 9-8-8 hotline
- 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. Printed copies will be provided upon request.

Student Responsibilities

This is NOT a math class, this is NOT a science class, ... This is a mixture of math, science and philosophy. Physics is challenging because the math is the easy part. You will need to observe, identify, think and then apply concepts to solve problems. The biggest expectation I have is that you will complete the problems to the best of your ability. You will struggle but the more you practice the better you will become. It is extremely important that you stay on top of the material as it will build and be used throughout the year. Finally, have fun!

Late work

If you do not turn something in then it will be a zero in the gradebook. However, if you communicate with me and were unable to turn an assignment in due to being behind, absent or struggling then we can work on a solution and have you complete the assignment in a timely manner and get the points. If you do not communicate with me then it is a zero, especially at the end of the quarter (if you wait till the last week and try to turn things in that were due earlier then you cannot turn them in and it stays a zero... so communicate and get the assignments turned in!)

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

The quarter grade is based on 3 weighted categories (weighted means that not all assignments are valued as much as others)

Category 1 worth 10% - Homework/Classwork

Category 2 worth 40% - Quizzes and Labs

Category 3 worth 50% - Tests

Most of the points are related to quizzes and labs throughout the quarter. There will be a few tests, tests are given at the end of each unit.

Semester grades

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 SCI400A Physics

Unit 1: Kinematics

Unit 2: Dynamics

Unit 3: Circular Motion & Gravitation

Unit 4: Energy

Unit 5: Momentum

Unit 6: Unit Simple Harmonic Motion

Unit 7: Torque & Rotational Motion

Unit 10: DC Circuits

**An asterisk will indicate a unit of study containing sexually explicit materials per legislative definitions.*



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Teacher: Benjamin Wilson, wilson.benjamin@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
Unit 1: Kinematics	<input type="checkbox"/>	<input type="checkbox"/>
Unit 2: Dynamics	<input type="checkbox"/>	<input type="checkbox"/>
Unit 3: Circular Motion & Gravitation	<input type="checkbox"/>	<input type="checkbox"/>
Unit 4: Energy	<input type="checkbox"/>	<input type="checkbox"/>
Unit 5: Momentum	<input type="checkbox"/>	<input type="checkbox"/>
Unit 6: Unit Simple Harmonic Motion	<input type="checkbox"/>	<input type="checkbox"/>
Unit 7: Torque & Rotational Motion	<input type="checkbox"/>	<input type="checkbox"/>
Unit 10: DC Circuits	<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)

Student signature

Parent/Guardian name (printed)

Parent Signature

Date

Please return this page to your student's teacher.