

Should I take Physics or Physics Honors?

ALL CSD99 Science courses are year-long courses.

In ALL CSD99 Physics courses, students will consider how to formulate answers to the following questions:

- *How can one explain and predict interactions between objects and within systems of objects?*
- *How is energy transferred and conserved?*

Review the chart to learn more about what is different about the student learning experiences in Physics Honors.

	PHYSICS	PHYSICS HONORS
1.) What prerequisite courses have students typically taken to prepare for this class?	Math 2 or Math 2S	Math 2, 2H, 3 or 3H
2.) Are there any co-requisites for this course?	Math 3 or 3S	Math 3 or 3H
3.) How does this affect a student's transcript?	This is a 1.0 credit. Credit in this course can count for students 1- year laboratory in a physical science course.	This is a 1.0 credit that will be weighted. Credit in this course can count for students 1- year laboratory in a physical science course.
4.) What is the order of concepts in the course each semester?	1st Semester- Motion: graphs and equations Forces: Newton's Laws* (basic algebra only) 2nd Semester- Projectiles Energy Momentum Circuits	1st Semester- Motion: graphs and equations Forces: Newton's Laws* (includes basic algebra and trigonometry) 2nd Semester- Projectiles Circular Motion Energy Momentum Electrostatics Circuits
5.) What is the average time commitment outside of class?	Similar on average.	Similar on average. If honors is a stretch for a student, they may need to put in extra study time to keep up.
6.) How do resources in this class differ?	Review materials built into class time and/or provided. Practice problems are simpler and more broken down step-by-step. Example motion problem: You release a marble from rest at the top of a ramp. How long will it take the marble to reach the end of the 2-meter-long ramp if it accelerates at a rate of 0.5 m/s/s? (one object, one algebraic step to solve)	Fewer built-in or provided reviews. Students are expected to demonstrate more independent study skills. Fewer, more challenging practice problems provided on each topic. Goes through the topics at a faster pace. Example motion problem: Trains A and B are initially 2.7 km apart on a track when train A begins to accelerate from rest toward train B. Train B travels at a constant speed of 55 m/s toward train A. How long will it take for the two trains to collide? (two objects with different types of motion, require a system of equations & multiple algebraic steps to solve.)