

Parents night -- Physics

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Conference periods: 1A, 2A, 4A, 4B

Other Physics Teachers

Carolyn Crapo, in office L218, Conference periods 3A, 3B

Tari Wood, in office L217, Conference periods 3A, 4A, 4B

Cole Hardy, in office L201, Conference periods 3A, 1B, 2B

Physics Course Internet Resources

Webassign – an internet based program that allows me to assign problems for students to complete anytime of the day. Advantages: instant feedback to student, each student gets a unique problem set, I get instant feedback on how students are doing, access 24 hours per day -- www.webassign.net (Link on school website as well)

Students can also extend assignments before an assessment or to retake an assessment.

We ask you to pay the \$10.50 yearly fee for this service. If this is an issue, please let me know. We complete between 50-60 assignments on this service in a year.

Schoology - access Schoology from Grandview website.

Has information such as an explanation of events in class, homework, and reading covered. Also will include helpful hints for webassign and other homework assignments. Students can link to it through Webassign and Powerschool.

Assessments are sometimes given on Webassign or Schoology.

Parents can link to Schoology by going through the my.cherrycreekschools.org website.

Once you have logged into the portal you can select Cole 3.0. You can then access your student's Schoology site and see the information on there. Parents can also set up notifications on Schoology.

Course information

Students in Physics will be engaged in an introduction to a quantitative study of the physical world. In the first semester, students will discover and use principles of terrestrial and celestial mechanics; student work will emphasize methods of problem solving and experimental data interpretation. In the second semester, students will learn about and work with light, electricity, magnetism, and atomic physics. Many homework assignments will utilize a web-based program to provide students with immediate feedback.

Class materials

Textbook – Holt Physics – Serway and Faughn

I have asked students to take book home – use a resource and they will have reading assignments out of the book

Workbook

Webassign

Gizmos – ExploreLearning.com

Topics of study (depth of study and coverage of topics may vary this year due to schedule)

Fall semester	Spring semester
Measurements/Converting Units	Circular motion and Law of Gravity
Sources of error	Momentum and Impulse
Designing/reporting experiments	Waves
Graphical analysis	Sound
Significant figures	Light theory
One dimensional motion	Light application
Projectile motion	
Vectors	Reflection/refraction
Newton's Laws	Interference/diffraction
Forces	Polarization
Energy, Work, Power	Intensity
	Electricity
	Resistance
	Circuits

Each unit has a major examination and/or project.

Grading

Student grades are based on the following percentages:

TakeHome assessments (Homework) – 15%

We include these as part of a students grade because we believe practice is important and many assignments include more challenging problems and learning that we cannot always test on assessments

Lab activities and assessments – 15%

Includes in-class lab activities and assignments that assess learning of skills and content through lab activities

Summative assessments - 40%

Includes quizzes and exams

Quarter assessment – 10%

Final exam - 20%

Assignments

Homework – will be assigned each class period. Sometimes due next class period and sometimes I will give them two to three nights to complete (so they have time to ask questions)

Students will conduct many laboratory investigations over the year. Some will require formal reports, some simply an answer sheet

Major exams are listed on syllabus for each unit.

Students are expected to hand work in when it is due -- can extend assignments and work is taken late to retake assessments.

Modifications for hybrid model

At this time I am planning on having 1-2 asynchronous lessons per week in addition to the one in-class lesson we will have. Students will generally have a week to complete assignments.

Monday classes (20 minutes long) will be synchronous and will usually include a practice problem reviewing the previous weeks content and then time for students to ask questions. In addition, I will be available for students to meet with me on Microsoft Teams to get help if needed.

If we move to a complete remote learning model lessons and classes will follow a more standard A/B schedule with assignments given each remote class.