

## Patterns Physics/Honors Patterns Physics

Syllabus 2018-2019

Teacher	Room	Prep period
Mr. Clarkson	K06	3rd
Mr. Haspela	D05	4th and 8th
Mr. Cramer	K01	3rd and 8th
Mrs. Martin	K06	5th

This is a lab-based course designed for freshmen. Using the processes of scientific inquiry, engineering design, and critical thinking students will discover and apply patterns in such major physics topics as motion, forces & momentum, energy, waves, and electromagnetism. An important aim of the course is to develop and build students' math abilities, performance in problem solving, scientific literacy, and technical communication skills that will be useful in later science courses. This course will address all required physics, inquiry, and engineering standards. All students may pursue and earn credit at the Honors level if they are motivated and capable.

**Topics** Semester 1: Unit 1: Inquiry and Patterns, Unit 2: Energy and Engineering  
Semester 2: Unit 3: Waves and Technology, Unit 4: Electricity and Magnetism

This course will be aligned to the Next Generation Science Standards listed below adopted by Oregon State Board of Education in 2014.

[HS-PS1 Matter and its Interactions](#)

[HS-PS2 Motion and Stability: Forces and Interactions](#)

[HS-PS3 Energy](#)

[HS-PS4 Waves and their Applications in Technologies for Information Transfer](#)

[HS-ETS1 Engineering Design](#)

### **Materials**

*What to bring to class:* Notebook, pencil, colored pencils will be useful at times, calculator.

*Textbook:* We will use *Active Physics* as a text resource. Books will stay in the classroom unless a student is interested in checking out a copy. Replacement cost is \$70.

### **Expectations**

You will be very successful if you meet the following expectations:

1. Attend class every day and show up on time.
2. Complete and turn in your own work, not the work of others.
3. Show respect for others in class at all times.
4. If you have a problem in class or about the class, speak with your teacher privately.
5. All personal electronic devices are not to be used in class except when expressly directed by your teacher. If yours is used inappropriately during class, we will deliver it to the office where you can retrieve it at the end of the school day. Repeated infractions will prompt further disciplinary action.

### **Discipline**

Step 1. You will receive two verbal warnings if you are either disrupting your teacher from teaching or other students from learning. If further disruptive behavior continues one of the following may occur:

- You will be asked to leave the room, assigned lunchtime detention, and your parents will be contacted.
- If disruptive behavior still continues, you will be asked to leave the classroom and earn a written referral to speak with an administrator.

**Tardiness:** Come to class on time. A classroom consequences will occur after the 3<sup>rd</sup> tardy per semester, a referral will be written and letter may be sent home to parents from the main office when a student receives 4<sup>th</sup> and a referral will be written and you will speak with an administrator after the 5<sup>th</sup>.

## **Grading**

The grading system will be designed to provide a pathway to passing grades for all motivated students but A's and B's and C's will be more difficult to earn.

70% Unit Tests  
30% In-class assignments (activities, worksheets, lab reports, practice tests)

## **Honors Credit:**

Any student who completes 9 additional assignments per semester and passes them will be granted Honors credit on their transcript. Students will self-select for this Honors credit, and do not need the permission of counselors, parents or teachers to pursue Honors credit. The assignments and process are described in detail on pages 3 and 4 of this document. The Honors credit is independent of the letter grade. For example, a student may earn a "D" grade in Honors Patterns Physics, or an "A" in non-Honors Patterns Physics, or anything in between those extremes.

**Unit Tests:** There will be 2 Unit Tests per semester, plus a Semester Final.

**What if I fail a test?** You may earn the opportunity to retake the exam by completing a practice test with a score of 90% or higher and finishing all assignments from the unit being tested.

**Quizzes:** Formative assessments (short quizzes) will occur. These will be tracked, but will not impact the final grade.

## **Late Work**

To receive full credit for your class work, it must be completed and turned in on time. We will accept late assignments, but only assignments from the current unit. **No back assignments will be graded after a unit test.**

## **Progress reports**

Progress reports will be posted about once a month, and danger of failure notices will go out mid-quarter and near the end of the semester. Students are strongly encouraged to keep track of their own grades online through our HAC system.

## **Communication for Parents**

Your teacher is available at HRVHS on school days from 8am-4pm. Please feel free to come in, email and leave a message for them to return your call. Email is most effective for us.

Teacher	Email	
Mr. Clarkson	<a href="mailto:David.clarkson@hoodriver.k12.or.us">David.clarkson@hoodriver.k12.or.us</a>	
Mr. Haspela	<a href="mailto:Kevin.haspela@hoodriver.k12.or.us">Kevin.haspela@hoodriver.k12.or.us</a>	
Mr. Cramer	<a href="mailto:Ted.cramer@hoodriver.k12.or.us">Ted.cramer@hoodriver.k12.or.us</a>	
Mrs. Martin	<a href="mailto:Emily.martin@hoodriver.k12.or.us">Emily.martin@hoodriver.k12.or.us</a>	

I have read and understand the class expectations.

Student Signature: \_\_\_\_\_

Parent Signature: \_\_\_\_\_