

IB Physics II Course Policy

This Course is a continuation of IB Physics I. The goal of this course is to prepare you for the IB HL Physics examination by the beginning of May. To that end, it is a rigorous introduction to physics designed to, in its two-year sequence, prepare a student for the college study of physics, chemistry, engineering, architecture, pre-med, and any other science-related field. We will study Thermodynamics, Electricity and Magnetism, and Atomic and Nuclear Physics. As a review, our final in the Spring will be a mock IB Physics test.

TAG: Physics is a rigorous course designed to challenge bright and hungry minds. Students that need further accommodation will find that there are numerous challenge activities, as well as open-ended labs that can be expanded and used in lieu of other assignments as negotiated with the instructor.

The text we will use is Physics - sixth edition by Douglas Giancoli.

Grading: I will grade you on a **point system weighted** in the following manner, not total points:

<u>Semester</u>		<u>Grading scale</u>	
Labs	30%	A	90%
Formative	5%	B	80%
Summative	55%	C	70%
Research	10%	D	60%

My Academic Expectations:

1. **Come to class prepared** with paper, a writing utensil, and a **calculator**.
2. **Participate in class.**
 - a. If there is a Warmup at the beginning of the period, actually do it.
 - b. If we are doing Direct Instruction, take notes, and do the whiteboards.
 - c. If we are doing Group Work actually do it, and help others in your group
3. Do the **Video Flips** as they are assigned. When a lesson is flipped, your only form of instruction is watching the videos, and taking notes. Failure to do this is as serious as skipping class. You need to **refer to and follow your unit syllabi**

If I find that you are not living up to these expectations we will need to have a discussion that involves your parents.

Formative Work will not be accepted after you take the test that work prepares you for. We will work on group work in class, homework and a formative assessment before we take assessments in class on a given concept or skill set.

Summative Assessments will be **closed book and notes, and I will take away your cell phone**; however, I will give you the IB data packet so you do not have to memorize the formulas. (Although that is quicker) I will supply a clean copy of the data packet. Summative assessments can be re-taken once, and I will average the two scores

Labs: You will need to do your lab write-ups on paper punched for a 3-ring binder. **Do not use a bound lab notebook.** I will share my lab write up expectations with you later. All labs **can be improved** and turned in until you are satisfied with your grade. It is a good idea for students planning to take the IB test to save their labs so they can refer to them when they get ready to do their internal assessment project..

Late work: Work that is turned in before or on the due dates will be promptly graded and turned back. **Late work will be graded as I have time.**

21 Day Rule: All re-takes of assessments and lab revisions must be completed within 21 days of the date you take the summative assessments for that unit. After 21 days, grades are **final**.

Research: I will want you to complete a research project related to physics over a topic that interests you. The final paper with results and discussion will be due at the end of the first semester. I will give you further details later. At the end of January, there will be a Research Symposium where you will present your research to the community, and revision and publishing your research results on our website will be required the second semester. Participation in a project and its presentation is a course requirement. If you are taking the IB test in Physics, this research project and the IA are the same thing.

Physics Parties Because teaching is an intrinsic part of learning, I want you to come in and tutor first year students for two physics parties each semester. We will have a sign up for this, and it is up to you to review the material, plan the party, and publicize it. This will earn you extra credit.

Missing class: If you miss class, it is your responsibility to get notes from someone, and study the missed material from your book. Often there are videos on the website you can watch to catch up on material you have missed.

Tracking grades: I will post your grades on line. **It is your responsibility** to keep track of your own grade and inform me of errors I may have made typing in your grades. Keep your graded assignments until the end of the semester. Keep your labs until the end of the year.

Cell Phones are not to be seen or heard during Direct Instructional time. On Assessment days we will typically put phones in the **Cellphone Palace**.

Equipment: As a researcher you will have access to more and scarier equipment. Before using a piece of equipment that I have not already shown you how to use, please ask me to demonstrate it. I am comfortable loaning school equipment out up to about \$100. If you need to use more expensive stuff, it needs to be yours, or you need to do it here. If you ask, I will assign you a drawer or cupboard in the room to keep equipment for your research project. Be aware of other people's experimental setups, and be good about sharing pieces of equipment that you both might need. Please keep your hands off demo equipment, unless told otherwise by me.

Extra help: Should you find that you need extra help or time to finish a lab, you can come in before or after school for help. Often there are help videos on the website that explain the material that is on the tests. If you want to be sure to find me after school, make an appointment. **When I am busy I may not be able to help you outside of an appointed time.**

Cheating: Don't cheat. I define cheating as the improper or undisclosed use of someone else's thoughts, work, or ideas. If I find that you have cheated, two things will happen; I will have a conference with your parents and you, and you will receive **zero** points **permanently** for the assignment, test or quiz.

Tardy policy: If you are tardy three times in a quarter, you will be warned. Since tardiness disrupts the class, I will require you to stay after class and straighten my room **the day of your fourth or fifth tardy**. Failure to stay for my detention will result in a referral for school detention. I will refer you to the Dean of Students, and contact your parents on your sixth tardy, and every tardy thereafter.

We will respect other people and their property in this class. I will not tolerate the isolation and ridicule of any group of people on the basis of their race, gender, sexual orientation, or religion.