

School: BASIS International School Shenzhen

Instructor: Neill Lee

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Course Description

In physics, students are introduced to the concepts and fundamentals of physical science. Students will develop a system for standard physical investigation by specifically designing models to represent physical situations. Topics will include experimental design, measurement, motion, forces, energy, momentum, and electrostatics. At the end of this course, students will be able to approach any system and use their knowledge of the physical world to separate and test the system appropriately.

Grading Policy

Grades will be calculated based on Exams, Quizzes, Homework and In-class assignments, including labs. The number of assignments for each trimester will vary based on class schedules, holidays and days off, and material being covered. For each Trimester, the Course Progress Grade will be determined according to the following weights:

- Class Tests (in Grading Period 3 this includes the pre-comprehensive exam): 50%
 - Class tests will occur once every grading period and will be announced at least one week in advance.
 - The Precomprehensive exam is included in Trimester 2's Course Progress Grade and will be worth 30%.
 - Please see the student handbook for calculation.
- Class Quizzes: 30%
 - Quizzes will be approximately every 1-2 weeks, and will cover the content of the current unit and may cover the content of previous units. Quizzes will be held randomly without notice.
- Class work, home work and Laboratory Work 20%
 1. Accuracy 5%
 2. Participation 5%
 3. Organisation/Neatness: 5%
- Attendance, Punctuality and Equipment: 5%

The average of all three trimesters is the Cumulative Course Average.

The Final Course Grade is the average of the Cumulative Course Average after the last grading period (50%) and the Comprehensive Exam Score (50%).

No homework will be assigned or graded during the review week before Pre-comps or Comps.

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Additional grading policies can be found in the Parent-Student Handbook

<http://basisschools.org/pdf/BASIS%20Charter%20Handbook%20FINAL.pdf> [<http://basisschools.org/pdf/BASIS%20Charter%20Handbook%20FINAL.pdf>]

Classroom Policy

Late assignments will NOT be accepted. If the student does not come to class prepared with completed assignments, no credit will be given. Because extenuating circumstances occur, the lowest assignment grade will be dropped from each grading period. This includes one late homework assignment per grading period.

Assignments without the student's name will receive no credit.

After an absence, the student should follow the homework buddy procedures described in the Parent-Student Handbook to obtain missed materials. Lecture notes will be posted on my website (<https://d29eb5mega6ct7.cloudfront.net/depict.htm> [<https://d29eb5mega6ct7.cloudfront.net/depict.htm>]) or are obtained by asking a peer. Students will be allowed time to make up work as outlined in the Parent-Student Handbook. Students are responsible for scheduling makeup quizzes or tests due to absence.

Students are expected to keep an organized binder as the materials and notes provided are essential for quizzes, tests and the comprehensive exams. Random notebook checks will take place. Additionally, students will have bell work at the beginning of class. These, and other assignments, may be peer edited or graded on occasion to ensure students are keeping up with the material.

Because the Communication Journal will be used to communicate grades and student progress updates, students must bring their CJ to every class period. Parents should frequently check CJ's and feel free to write to me in the CJ as well as by email at neill.lee@basisinternationalsz.com [<mailto:neill.lee@basisinternationalsz.com>]

Students are expected to comply with the Parent-Student Handbook Code of Conduct including, but not limited to, the following:

- Promotes respect for fellow students and staff members
- Promotes respect for all individuals
- Promotes individual and community responsibility
- Provides a safe environment for students
- Provides a disruption-free educational environment

Instructional Materials

Textbook	
ISBN	0321009711
Author	Hewitt, Paul G.
Title	Conceptual Physics
Publisher	Little, Brown and Company
Strategy	Classroom set

Although not normally advised for this course, students may check out textbooks to take home at the teacher's discretion or purchase their own copy for home use. Please be advised that the course is based on in-class notes; the textbook contains much more information, and in greater depth, than the students will be held accountable for knowing.

Other Information

Students are required to bring the following materials to EVERY physics class period

- TI 30 Series calculator (or one used for chemistry)
- Binder (physics only) with dividers
- Pencils and erasers
- Graph paper
- Hole Punch
- Ruler
- White Board Marker

Additional resources, notes, and tutorials for students can be found on the following websites:

<http://www.physicsclassroom.com/Class/> [<http://www.physicsclassroom.com/Class/>]

<http://www.bbc.co.uk/education/subjects/zpm6fg8> [<http://www.bbc.co.uk/education/subjects/zpm6fg8>]

<http://phet.colorado.edu/> [<http://www.bbc.co.uk/education/subjects/zpm6fg8>]

<http://hyperphysics.phy-astr.gsu.edu/hbase/hframe.html> [<http://hyperphysics.phy-astr.gsu.edu/hbase/hframe.html>]

This syllabus is subject to change and students will be informed of any changes.

Syllabus Outline Lesson Units

Classroom Policies and Procedures

Laboratory

1D Kinematics

Mass

Forces

Newton's Law of Universal Gravitation

Energy

Momentum

Pre-Comp Review

Pre-Comps

Electrostatics

Waves

Comp Review

Comps