

Overview:

This course is designed to run for two semesters: Introduction to Physics I and Introduction to Physics II. The target audience is students of incoming 5th Grade and above. The goal is to open kids' to see

- Physics is everywhere, and where?
- What laws of Physics have been discovered throughout the history?
- Why should I care?

If we do it right, fun should never be a conflict of learning, especially in Science subjects. This is the goal we strive for in this course.

Classes will use real life phenomena as examples to illustrate fundamental Physics Concepts, Physics Laws, and the meanings behind the quantified Physics concepts and formulas.

Textbook:

- Reference Book: http://smile.amazon.com/gp/offer-listing/B0095GZX30/ref=tmm_pap_used_olp_sr?ie=UTF8&condition=used&sr=&qid= Basic Physics: A Self-Teaching Guide by Karl F. Kuhn (Author) Note: Used copy generally saves. Second Edition seems to be the latest edition. ISBN: 978-0-471-13447-3.

Topics in this course:

- Newtonian Physics
 - Mechanics (力)
 - Thermodynamics (热)
 - Optics (光)
 - Electromagnetics (电)
 - Astronomy (天文)
- Modern Physics
 - Atomic Physics
 - Subatomic Physics
 - Quantum Mechanics
 - Quantum Field

Expectation/Requirement:

1. It's preferred that students know Chinese, but it's not required. If non Chinese speaker student registers this course, the course will be taught in English.
2. Parents set expectation – There will be quiz often to help students to retain the critical concepts and learning. There will be homework with calculations, but parents should set expectation accordingly so that kids will love/like Physics, not the opposite. If quiz or homework is too much for your student, parents can elect to choose part of the load for their students.

Teaching Method:

Cartoons, animations, or other types of video recordings will be used whenever possible to show and explain Physics concepts and laws. Physics experiments will be show in video too.

Handout and Quiz will be emailed to parents/students.

Materials used in class will be emailed to parents/students whenever possible.

Instructor background:

- Occupation: engineer in computing – Firmware Developer, System Engineer, Enterprise Server Supportability Engineer.
- Undergraduate Major – Physics, Nankai University, Physics Department
- Graduate Major – Physics Graduate Program (left for US. before completion) in Nankai University; Master of Physics and Master of Electrical Engineering form Wichita State University.