

College Physics II PHYS 1302 Syllabus

Learning Objectives / Outcomes

After this course, the students will be able to realize the basic principles of electricity, magnetism, optics, modern physics, and understand the underlying physics concepts used in applications into technical instruments and in everyday life.

Grading

Pearson HWs	45%
Proctored Exam	55%

Course Requirements

There are classes, review problems, online HWs, and proctored in-person exams.

Attendance

Attendance is optional but recommended. When class is missed, please feel free to contact any classmates for info in the class. This is an in-person, not online course. Do not expect info in class will be provided outside class. Since attendance is optional, you do not need to email me about absence. Email related to absence will not be replied.

Review problems

Problem solving is emphasized in this course. A review class provides practice and is group work in class. There will be one review class for each chapter. This takes place within the regular class time and does not need extra sessions. Most questions have a hint, an equation or example in the books. Reading that part of book can help solve the problem. There is also a Constants page with values and formulae of use in problem solving.

Pearson HWs

Due dates for HWs are posted in the Pearson system. Late work results in 1% deduction per day. Work handed in after the semester end (12/9/2022) will get no credit.

Required Materials and Recommended Readings

- (1) Young and Adams, College Physics, 11th edition, Pearson, 2020.

Each student must have access for Pearson Mastering Physics to do on-line homework. The usual way to purchase access is described in Pearson Student Registration Handout, posted in eLearning.

- (2) <https://openstax.org/details/college-physics>

Course Schedule

Ch. 18 - 21	Electricity
Ch. 22 - 24	Electromagnetism
Ch. 25 - 27	Optics
Ch. 28 – 34	Modern Physics

Physics II includes Chapters 18-34. One lecture covers about one chapter.

Contact with teacher

Albert Fung, Ph.D.

You may ask me questions in person before, during or after each class.

Email: axf220000@utdallas.edu

Important emails will be sent to your Outlook, so please check regularly.

T.A.: Ajay Tunikipati, at Ajay.Tunikipati@utdallas.edu

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