

Course outline for PHYS-109 (Semester 412: Spring 2020)

Textbook: College Physics, A strategic Approach.

Randall D. Knight, Brian Jones and Stuart Field, third edition, 2014, Pearson,
ISBN-13: 9781292057156

From Sunday	Weeks	Chapters	Sections
Part I: Force and Motion			
17-24/01	01-02	Chapter 2 Motion in One Dimension [86]	1- 7
31/01	03	Chapter 3 Vectors and Motion in Two Dimensions [64]	1, 3, 4
07/02	04	Chapter 4 Force and Motion [79]	1- 7
14-21/02	05-06	Chapter 5 Applying Newton's Laws [128]	1-5, 7, 8
	07	Chapter 8 Equilibrium and Elasticity [45]	1, 2
Part II: Conservation Laws			
28/02	08	Chapter 9 Impulse and Momentum [55]	1- 5
07/03	09	Chapter 10 Energy and Work [94]	1-4, 6-8
Part III: Properties of Matter			
14/03	10	Chapter 13 Fluids [65]	1- 3, 5, 6
Part V: Optics			
21/03	11	Chapter 18 Ray Optics [43]	2, 3, 5, 7
Part VI: Electricity			
28/03	12	Chapter 20 Electric Fields and Forces [41]	1-5, 7
04/04	13	Chapter 21 Electric Potential [18]	1, 7
		Chapter 22 Current and Resistance [13]	1, 2, 5
Part VII: Atomic, Electromagnetic, and Optical Phenomena			
11/04	14	Chapter 30 Nuclear Physics [40]	1, 4, 5

Credit hours distribution:

4 (3+0+2)

3 hours of lectures a week (14 weeks in the semester).

2 hours a week for laboratory experiments.

Marks distribution:

- 1) First Midterm Exam -----M1----- = 15 marks
- 2) Second Midterm Exam ---M2----- = 15 marks
- 3) Practical Work (Lab.)-----L----- = 30 marks
- 4) Final Exam-----F----- = 40 marks

Total----- = 100 marks

Chapters Distribution for the Exams:

M1: CHAP: 02, 03, 04, 05, 08

M2: CHAP: 09, 10, 13, 18

F: All the 13 CHAPTERS

Absence Policy:

I. Attendance percentage:

- Student should attend the course lectures during the 15 weeks of the semester.
- Students with absence hours more than 25% of the total course hours will be banned from the Final Exam.

II. Absence from Examinations:

- If you are unable to attend an examination (first or second midterm) owing to illness or other unavoidable circumstances, you should provide an acceptable evidence of 'good cause' for such absence to the competent commission. If the absence is regarded as authorized, student will grant a Makeup Exam only once.
- All Makeup Exams will be scheduled at the same time one week before the Final Exam.
- No other Makeup Exam will be done in the same semester. If you miss the Makeup Exam, you will have a mark of zero.

Lecturer: Dr. Bandar Ali Al-Asbahi

Office: 2A 24

Office Tel. No.: 4676611

Email: balasbahi@ksu.edu.sa