

General Physics I - Syllabus

Spring semester 2020

Course information

Code	Title	Credit	Coordinator
PHYS151	General Physics I	3	Office of General Physics

Course objective: Understanding basic physics course involving classical mechanics, rotation, wave, and thermodynamics.

Prerequisites: None.

Textbook: Halliday, Resnick, and Walker, *Principles of Physics, 10th Edition* (John Wiley & Sons, Inc)

References:

Practice Quizzes for General Physics I, KPOP[®] Collaboration (2020).

Practice Quizzes for General Physics II, KPOP[®] Collaboration (2020).

Course Policies

Evaluation : [100 points per exam] × [2 exams] + [quiz 100 points] = [300 points total]

The number of absences	Penalties
3 ~ 5	one-step downgrade
6 ~ 9	two-step downgrade
10 or more	F

Tentative Course Outline

Week	Dates	Contents	Comments
W1	03/16	01. Measurement	
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W2	03/20	02. Motion Along a Straight Line	
	03/23	03. Vectors	
W3	~	04. Motion in Two and Three Dimensions	
	03/27		
W4	03/30	05. Force and Motion - I	
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W5	04/03	06. Force and Motion - II	
	04/06		
W5	~	07. Kinetic Energy and Work	
	04/10		
W5	04/13	08. Potential Energy and Conservation of Energy	04/15: Election day
	04/17		

W6	04/20 ~ 04/24	09. Center of Mass and Linear Momentum	
W7	04/27 ~ 05/01	10. Rotation	04/30: Buddha's Birthday
W8	05/04 ~ 05/08	11. Rolling, Torque, and Angular Momentum	05/05: School Anniversary, Exam covers chapters 01 ~ 09.
W9	05/11 ~ 05/15	12. Equilibrium and Elasticity	
W10	05/18 ~ 05/22	13. Gravitation	
W11	05/25 ~ 05/29	15. Oscillations	
W12	06/01 ~ 06/05	16. Waves - I	
W13	06/08 ~ 06/12	17. Waves - II	
W14	06/15 ~ 06/19	18. Temperature, Heat, and the First Law of Thermodynamics	
W15	06/22 ~ 06/26	19. The Kinetic Theory of Gases	
		20. Entropy and the Second Law of Thermodynamics	
		06/26: Final Exam	Exam covers chapters 10 ~ 20 except for 14.