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web: <http://www.sci.ccny.cuny.edu/~gunner/Pages-315/index.html>

TEXT <https://www3.nd.edu/~nsl/Lectures/mphysics/>

Physics 315 2017

CHAPTER Homework

1	8/31/17	Let's think about a body moving		
2	9/5/17	Mechanics of the body	1	
3	9/7/17			
4	9/12/17	Energy balance of the body	2	1
5	9/14/17			
6	9/19/17	Physics of high viscosity	Handou	2
	9/21/17			
7	9/26/17	Muscle Function		Handout1
8	9/28/17			
9	10/3/17	Pressure and high altitude	3	
10	10/5/17			
11	10/10/17	Circulation		3
12	10/12/17			
13	10/17/17	Nerve electrical system	6	
14	10/19/17			
15	10/24/17	Acoustics	4	6
16	10/26/17	Optics	5	
17	10/31/17	Touch		
18	11/2/17	Medical imaging		
19	11/7/17	Radiation	7	4,5
20	11/9/17			
21	11/14/17	Guest		
22	11/16/17	Guest		7
	11/21/17			
	11/23/17			
23	11/28/17	PET	9	
24	11/30/17	MRI		
25	12/5/17	Talks		
26	12/7/17	Guest		
27	12/12/17	Talks		

Grade

10% Attendance and class participation.

30% Completed homework effects grade. If homework not done you fail.

60% Projects: Talk and paper.

Project

1) Pick one biological system eg balance, hearing, heat regulations, skeleton, muscle, lungs etc. function measured?

What is the range of health; what can go wrong and why.

Try to look at some molecular information. We need to incorporate physics equations.

2) Pick a measuring technique (ergometer, MRI, PET, CT scans, or something simple stethoscope).

What is the physical principle, what is it used to measure?