

## Grande Prairie Regional College

## Department of Science

## PC 1000 INTRODUCTORY GENERAL PHYSICS I 3.0 (3-0-3) UT(3)

Lectures	M W F	10:00 - 10:50 a.m. D208
Laboratory	W or F	3:00 - 5:50 p.m. J103

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<b>INSTRUCTOR:</b>	Dr. Robert Hunt, P.Eng.	
<b>OFFICE:</b>	C414	
<b>PHONE:</b>	539-2008/532-1338 (GPRC/HOME)	
<b>E-MAIL:</b>	hunt@gprc.ab.ca	
<b>TEXT:</b>	<u>Physics</u> , Cutnell & Johnson, 3rd Edition	
<b>COURSE CONTENT:</b>	Elasticity, oscillations, waves, sound, fluids, light reflection and refraction, interference and diffraction of light, dual nature of light.	
<b>PRE-REQUISITE:</b>	Physics 30	
<b>MARK DISTRIBUTION:</b>	Assignments	10%
	Laboratories	20%
	1st Mid-Term Examination	15% (Oct. 18/95)
	2nd Mid-Term Examination	15% (Nov. 8/95)
	Final Examination	40% (TBA)

COURSE OUTLINE

Chapter 10	Stress, strain, shear, elasticity, simple harmonic motion, energy and frequency of simple harmonic oscillations.
Chapter 16	Periodic waves, sound waves, sound intensity, Doppler effect.
Chapter 17	Superposition of waves, diffraction, standing waves.

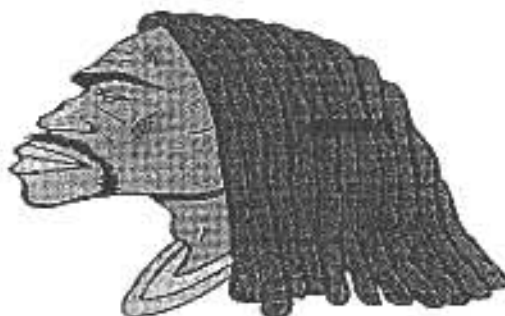
Chapter 11	Fluid pressure, buoyancy, fluid motion, viscosity.
Chapter 25	Reflection of light, plane and spherical mirrors.
Chapter 26	Refraction of light, lenses, combinations of lenses.
Chapter 27	Light interference and diffraction.
Chapter 29	Dual nature of light.

**LABORATORY COMPONENT**

Lab #	Source	Content	Week of
1	handout	Quiz-Advisory Exam	Sept. 11
2	Exp. 1 Lab Book	Pendulum	Sept. 18
3	Exp. 2 Lab Book	Hooke's Law	Sept. 25
4	Exp. 3 Lab Book	Standing Waves on a String	Oct. 02
5	Exp. 4 Lab Book	Standing Waves in Air	Oct. 09
6	Exp. 5 Lab Book	Fluid Properties	Oct. 23
7	Exp. 6 Lab Book	Geometrical Optics	Oct. 30
8	Exp. 7 Lab Book	Optical Instruments	Nov. 06
9	Exp. 8 Lab Book	Interference of Light	Nov. 20
10	handout	Lab Test	Nov. 27

**GRADING GUIDELINES**

Percent (Approx.)	Grade
90 - 100	9
80 - 89	8
72 - 79	7
65 - 71	6
57 - 64	5
50 - 56	4
45 - 49	3
26 - 44	2
0 - 25	1



(Cambridge System)