

DELIVERY MODE(S): **COURSE OUTLINE**

Chapter 1 Introduction to Physics

Chapter 2 One-Dimensional Kinematics

Chapter 3 Vectors in Physics

Chapter 4 Two-Dimensional Kinematics

Chapter 5 Newton's Laws of Motion

Chapter 6 Applications of Newton's Laws

Chapter 7 Work and Kinetic Energy (Sections 7.1-2, 4)

Chapter 8 Potential Energy and Conservation of Energy (Sections 8.1-4)

Chapter 9 Linear Momentum and Collisions (Sections 9.1-7)

Chapter 10 Rotational Kinematics and Energy

Chapter 11 Rotational Dynamics and Static Equilibrium

Chapter 12 Gravity (Sections 12.1-2, 4-5)

Chapter 13 Oscillations about Equilibrium (Sections 13.1-6, except The Physical Pendulum in Section 13.6)

Chapter 14 Waves and Sound (Sections 14.1-2, 4-9)

Chapter 28 Physical Optics: Interference and Diffraction (Sections 28.1-2,4,6)

Chapter 25 Electromagnetic Waves (Sections 25.2-3)

TRANSFERABILITY : **It is a University of Alberta Course**

**** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability.**

GRADING CRITERIA:

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Guidelines	Designation
A⁺	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A⁻	3.7	80 – 84	FIRST CLASS STANDING
B⁺	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B⁻	2.7	70 – 72	
C⁺	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C⁻	1.7	60 – 62	
D⁺	1.3	55 – 59	MINIMAL PASS
D	1.0	50 – 54	
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

EVALUATIONS:	Assignments	15%	
	Laboratories	20%	
	Mid-Term Examination	20%	(Oct. 17/12)
	Final Examination	45%	(TBA)

STATEMENT ON PLAGIARISM AND CHEATING:

Refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at www.gprc.ab.ca/about/administration/policies/**

**Note: all Academic and Administrative policies are available on the same page.

COURSE SCHEDULE/TENTATIVE TIMELINE:

Lecture M W 10:00 - 11:20 a.m. J202

Laboratory W or R 2:30 - 5:20 p.m. J103

LABORATORY COMPONENT

Lab #	Source	Content	Week of
1	Exp. #1	Graphical Analysis	Sept. 10
2	Handout	Vector Addition	Sept. 17
3	Exp. #3	Non-Uniform Motion	Sept. 24
4	Exp. #2	Acceleration Due to Gravity	Oct. 1
5	Exp. #4	Atwood's Pulley	Oct. 8
6	Exp. #5	Potential and Kinetic Energy	Oct. 22
7	Exp. #6	Collision of Ball	Oct. 29
8	Exp. #7	Standing Waves on a String	Nov. 5
9	Exp. #8	Speed of Sound in Air	Nov. 12
10	Exp. #9	Interference of Light	Nov. 19