PHYSICS Science Remedial Activities for Secondary V Physics

203-001-RE (all sections) Fall 2019

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Pre-requisites High School Physics 553-504 (grade less than 70%), or High School Sec IV Science 558-404 or 402, or

Physical Science 436 or CEGEP 982-003-50

Co-requisites Remedial Activities 12br3 S(2ch/out/stabheenatuires, (2ch/out/stabheenatuires, (2ch/out/stabheenatuires), (2ch/o

Course objectives

This course is a prerequisite for Mechanics (203-NYA-05), the rst physics of the lamb at developing the basic knowledge and skills needed to succeed in the lamb at the lamb a

Reference materials

- 1. Physics, Remedial Activities for Secondary V Physics (with Mastering Physics), 203-001-50. The second edition of this custom textbook is available at the Dawson College Bookstore (it has a light bulb on the cover) and includes an access code for the online homework system. The book consists of chapters taken from College Physics: A Strategic Approach, 3rd edition, by Randall D. Knight, Brian Jones, and Stuart Field published by Pearson Education (2016).
- 2. **Library copies:** Copies of the textbook are available on reserve in the Dawson Library (as are similar textbooks by Serway & Jewitt, *etc.*)

Teaching methods

The material will be presented using a mix of active learning activities, lectures, in-class problem solving, laboratory experiments and demonstrations. Laboratory periods will be used for experiments as well as class tests and lectures.

Attendance & participation

Although class attendance is not compulsory, students should make every e ort to attend all classes. In the event that a class is missed, the student is responsible for all material covered or assigned during that class. Attendance during laboratory experiments and for class tests is however compulsory. In the rare event that a student for valid reason (e.g. due to an intensive course, illness, etc.) is or anticipates to be abserte quoisishla, labforatory experiment or for a class test, the student

s before the absence or, at the latest, on the day of their

Course content

The material to be covered is contained in the following chapters and sections of the text.

Weeks	Topics	Chapter & Section
1	Course introduction and math review	{
2	Representing motion	Ch.1: 1{6
2{4	Motion in one dimension	Ch.2: 1{7
4{5	Vectors and motion in two dimenstions	Ch.3: 1{4, 6{8
6	Forces and Newton's laws of motion	Ch.4: 1{7
7{8	Applying Newton's laws	Ch.5: 1{8
9{10	Energy and work	Ch.10: 1{6, 8
11{14	Ray optics	Ch.18: 1{7
15	Optical instruments	Ch.19: 1{2