



COURSE OUTLINE

Course Name: Physics 11 - Part 1

Course Number: PHYS 0861

Number of Credits: 4.0

Effective Date: February 2019

Course Description:

This course introduces students to the basic concepts of physics including measurement, kinematics, dynamics, momentum and energy, and an introduction to special relativity. Motion is introduced, and then mathematical models are developed to quantify observations and predictions.

Both Physics 0861 and Physics 0871 are required for ABE Advanced Physics.

Physics 0861 and Physics 0871 can be taken at the same time or in any order.

School or Centre:

School of Arts and Science

Year of Study:

ABE Advanced Level (Grade 11)

Course History:

Revised Course

Name of Replacing Course (if applicable):

Course Pre-requisites (if applicable):

Precalculus 11 successfully completed within the last 3 yrs., a minimum score of 72% on the Intermediate Algebra Math Assessment, Math 0861, or equivalent; English 10 or equivalent

If the Math prerequisite is not met, MATH 0861 must be taken at the same time as PHYS 0861.

Course Co-requisites (if applicable):

PLAR (Prior Learning Assessment & Recognition)

No Yes (details below):

Instructional Strategies:

Class-based: Lecture with small group work and four lab activities.

Self-paced: One-one individualized instruction, with four lab activities.

Course Learning Outcomes:

Students will meet the learning outcomes for ABE Advanced level Physics located in the 2018-2019 ABE Articulation Handbook <http://www.bctransferguide.ca/docs/ABE1819.pdf>

Program Learning Outcomes:

Evaluation/Grading System

Grading System	Specify if 'Other':	Specify Passing Grade:
Letter Grades		D

Components and Weighting of the Assessment/Evaluation Plan:

Type	Percentage	Evaluation Plan (provide a brief explanation for each component especially if value exceeds 35%):
-		Class-based
Assignments	15	includes formal and informal lab reports
Lab Work	20	
Quizzes/Tests	65	three tests at 15% each plus a number of quizzes which add up to 20%
		Self-paced
		Labs 20%, 4 Tests at 13% each, Final Exam 28%
Total		100

Learning Environment/Type

Instruction Type	Hours Per Instruction Type	Comments
L - Classroom	96	
S - Self-paced		
-		
Total		96

Resource Material(s):

Resources are items in addition to tuition that the student is responsible for purchasing. Course resource information will be supplied by the department/instructor.

Course Topics:

1. Scientific Method
2. Kinematics (linear motion, projectile motion, vectors)
3. Measurement (laboratories)
4. Dynamics (Newton's laws, momentum, energy)
5. Special Relativity (not covered in self-paced)

VCC Education and Education Support Policies

There are a number of **Education** and **Education Support** policies that govern your educational experience at VCC, please familiarize yourself with them.

The policies are located on the VCC web site at:

<http://www.vcc.ca/about/governance--policies/policies/>

To find out how this course transfers, visit the BC Transfer Guide at www.bctransferguide.ca.

FOR COMMITTEE USE ONLY

Approved by Curriculum Committee:		Approved by Education Council:	
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