

# Physics 11 Academic

TEACHER COMMUNICATION PLAN – September 2009

Bruce Dalzell – Sydney Academy

## OVERVIEW:

Physics 11 is an academic science course designed to prepare students for Physics 12 and Physics at the secondary level (university, community college, etc.) and to develop increased understanding and appreciation for physics in society.

## SYLLABUS

The following topics will be covered in the Physics 11 curriculum

<b>Kinematics</b>	Presenting Vectors, Vector Analysis, Algebraic Problem Solving
<b>Dynamics</b>	Dynamics Introduction, Newton's Laws, Momentum Introduction
<b>Momentum and Energy</b>	Conservation of Momentum, Work, Power, and Efficiency, Transformations Total Energy, and Conservation, Technological Implications
<b>Waves</b>	Fundamental Properties, Sound Waves and Electromagnetic Radiation

## ASSESSMENT AND EVALUATION:

### ❖ 50% Tests, Labs, Assignments & Class Participation

- 10-15% Labs
  - Physics is an experimental science and labs are an integral part
  - Students participation in the lab will also be evaluated
- 10-15% *Independent Research Project and/or Lab*
  - **Research Project**
    - Each student will research and submit both a written report and a visual presentation on any physics related topic of their choice.
  - **Independent Lab**
    - Groups of two or three students will submit a plan, conduct the experiment, and complete a complete lab report for an original experiment or an adaptation of a known experiment of their choice. Each student in the group will study a differ
- 5-10% Pop-quizzes / Assignments
  - Homework will be assigned on a regular basis and is expected to be completed on time in order to succeed in this course.
  - Pop quizzes will be used to evaluate comprehension
  - Homework assignments may include short research papers (1–2 pages + references)
- 15-20% Tests
  - announced tests for discrete sections of the curriculum

### Science Fair

- Each student, working alone or in pairs, is encouraged to develop a presentation for the Sydney Academy Science Fair. The project could be an experiment, a study, or an innovation.
- The science fair project mark may be used to replace a lab or research paper mark

### ❖ 20% Comprehensive Test

### ❖ 30% Exams – January Exam

\*\* The November is a progress reports and its value is **not** used as a proportion of the final grade \*\*

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PHYSICS 11 ACADEMIC

TEACHER COMMUNICATION PLAN

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## TEXT

### **McGraw-Hill Ryerson Physics (2003)**

- A CD version of the text is included. It is recommended that students keep this disc safe at home in case the text is left at school.
- Students are expected to do **all** Practice Problems in the sections studied.

## ATTENDANCE

Attendance is a key factor affecting the academic success of a student as well as their understanding and enjoyment of the course. Significant absences from class may be detrimental to student achievement.

Students are expected to keep up with course work while they are absent from school

Monthly attendance profiles will be sent home with the students to be reviewed and signed by a parent / guardian and returned promptly to the homeroom teacher.

During class periods, students are expected to remain in the classroom and participate in class activities. Students should use the washroom and consume any food or beverages before class begins. Only water is to be consumed in class.

## ABSENCES AND EVALUATIONS

In the case of frequent absences by a student, the teacher may decide to do a make-up test or assignment at their discretion. Students who are required to make-up any test or in-class project/assignment, must be prepared to write said test, project or assignment upon their return to school. The date of the writing of said test, project or assignment will be entirely at the teacher's discretion.

- An **UNEXCUSED ABSENCE** for a test results in a mark of **ZERO** for the test or evaluation.
- If the absence was excused by the parent/guardian within 5 school days, the overall evaluation will be pro-rated.

### **Tests**

- Generally, make-up tests will **NOT** be offered.
- Make-up tests may be offered at the discretion of the teacher

### **Labs**

- Experiments are an integral component of this course. Students are required to have a minimum number of hours performing experiments
- Any missed lab time must be made up outside of class time, usually during lunch

### **Assignments**

- Projects and other assignments (including homework) are due at the beginning of class.
- It is the responsibility of the student to submit assignments on their due dates even when the student is absent during the class in which it is due.
- Projects may be submitted electronically from the student's EDNET email. Each student has access to their own ednet email and students should contact Mr. Dalzell for assistance with their ednet account

## CONTACT INFORMATION

*Extra Help* Students who want clarification or confirmation of their ideas or methods should see me as the need arises.

I will be available for extra help for individuals or groups of students every lunch from 12:15 – 12:40. The relatively long noon hour is best for extra help but I am also available after school until 3.

*Web Site* A web site has been designed for Physics 11 to provide course information and support for students and parents. The site includes the daily course schedule (topics, activities, tests, due dates) and some links to notes.

The website address is: [sacademy.cbv.ns.ca/staff/bdalzell/P1RPage.html](http://sacademy.cbv.ns.ca/staff/bdalzell/P1RPage.html)

or go to my web site: [sacademy.cbv.ns.ca/staff/bdalzell](http://sacademy.cbv.ns.ca/staff/bdalzell)  
and select **Physics 11**

or go to the school site: [sacademy.cbv.ns.ca](http://sacademy.cbv.ns.ca)  
and select **Staff** → Staff Sites → Mr. B. Dalzell

*Personal* Parents/guardians are encouraged to contact the teacher at the school by telephone (562-5464) or by e-mail ([bdalzell@staff.ednet.ns.ca](mailto:bdalzell@staff.ednet.ns.ca)).

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This certifies that I, \_\_\_\_\_, the \_\_\_\_\_ of  
name of parent / guardian relationship (mother, father, aunt, etc.)  
\_\_\_\_\_ have read and maintained a copy of this teacher  
name of student  
communication plan.

Date: \_\_\_\_\_

\_\_\_\_\_  
Signature of Parent / Guardian