



Syllabus

School: W.P. Wagner School of Science and Technology

Course: Physics 30

Credits: 5

Prerequisites: Physics 20 (recommended grade of at least 65% in Physics 20)

Teacher: Mr. A. Linville

Teacher Contact info: Room 166 during class time or phone (780)469-1315

Necessary Materials:

- **Textbook: Pearson Physics**
- **Binder**
- **Pencil**
- **Ruler**
- **Paper**
- **Calculator**

Purpose/Goals/Objectives:

Physics 30 is a diploma course meant for students who aspire to earn a post-secondary degree. Students will explore concepts related to momentum, electric and magnetic forces and fields, electromagnetic radiation and particle physics.

Scope and Sequence:

<i>Units of Study</i>	<i>Weight (%)</i>	<i>Class Time</i>	<i>Tentative Exam Dates</i>
1: Momentum and Impulse	15	14	
2: Forces and Fields	25	24	
3: EMR	25	24	
4: Atomic Physics	25	20	
5: Skills	10		
Synthesis and Review		3	

Class website where you can get missed notes and assignments:

<http://www.linville.ca/>

Assessment:

Ongoing assignments, labs, quizzes and exams will be used to assess student achievement. At the end of the course students will write the Alberta Education Diploma Exam.

Evaluation/Grading Policies:

70% of your overall grade will be awarded by your teacher. The other 30% will be determined by your performance on the Diploma Exam. The teacher-awarded portion will be presented in four units. Each unit mark will be comprised of 30% for daily work (quizzes, projects, labs, assignments, etc) and 70% for unit exams. Exams will be based the Alberta Physics 30 course, not the AP material. If you miss a unit exam, you will be given an opportunity to write an **alternate exam at the end of the course.** If you miss a quiz, no alternate quiz will be given.

To be eligible for a replacement exam, students are required to have completed at least 90% of all homework including labs. The original exam has to be 15% or more below the current mark in the course and that the student must have completed all the labs and homework. When the replacement exam is written is at the discretion of the teacher.

Assignments, including labs that have not been handed in or omitted by the end of the current unit of study will receive a mark of 0.

Other Supporting Info:

Diploma Exam (2 hours) will consist of approximately 35 multiple choice questions and 15 numerical response questions.

Useful Alberta Ed Links

- Physics 30 Subject Bulletin
<http://education.alberta.ca/admin/testing/diplomaexams/exambulletins.aspx>
- Programs of Study
<http://education.alberta.ca/teachers/program/science/programs.aspx>
- Official rules for significant digits and rounding
<http://education.alberta.ca/admin/testing/diplomaexams/exambulletins/guidelines.aspx>
- Mathematics and Science Directing Words
<http://education.alberta.ca/admin/testing/diplomaexams/exambulletins/mathscience.aspx>